



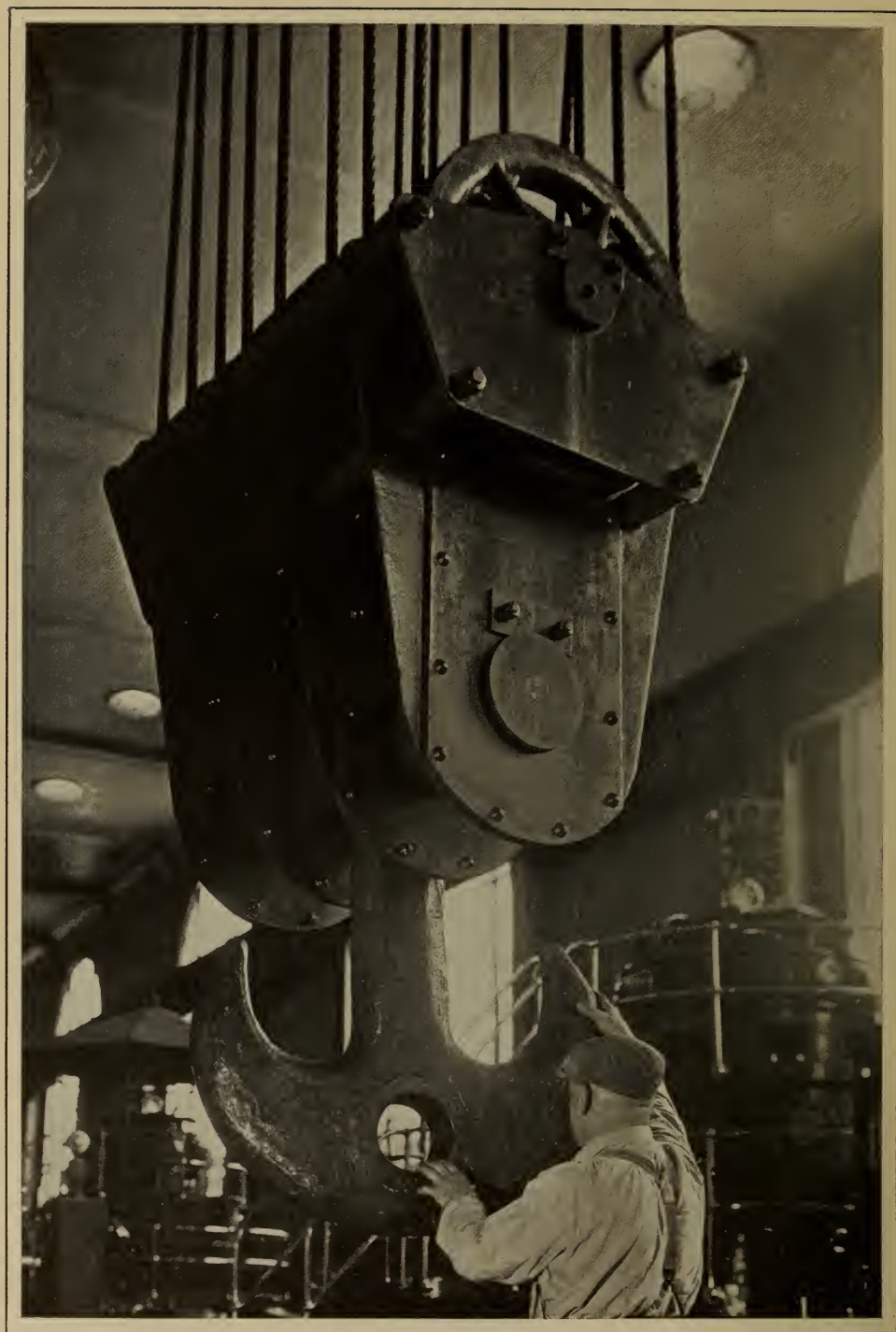
REPORT OF THE
Hydro-Electric Power
Commission
OF ONTARIO
1937

WILLS MACLACHLAN



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The Estate of the Late
Wills Maclachlan, '06



THE 150-TON MAIN HOOK OF THE CRANE IN QUEENSTON GENERATING STATION

The hook itself is 42 inches across. The hole is 9 inches in diameter. Two similar cranes are used in lifting the shaft and rotor when dismantling the main units. (See text page 22.)

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Ontario Hydro-Electric
Commission

(THIRTIETH) ANNUAL REPORT

OF

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1937



ONTARIO

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THE LEGISLATIVE ASSEMBLY OF ONTARIO

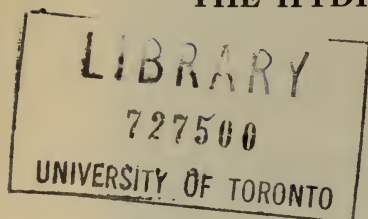
TORONTO

Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty
1938

THE HYDRO-ELECTRIC POWER COMMISSION

OF ONTARIO

1936-7



T. STEWART LYON.....*Chairman*
HON. ARTHUR W. ROEBUCK, K.C., M.L.A. (to April, 1937) *Commissioner*
HON. THOMAS B. McQUESTEN, K.C., M.L.A.....*Commissioner*
A. MURRAY McCRIMMON.....*Secretary and Controller*

THE HYDRO-ELECTRIC POWER COMMISSION

OF ONTARIO

From November, 1937

T. H. HOGG, B.A.Sc., C.E., D.ENG.....*Chairman and Chief Engineer*
HON. WM. L. HOUCK, B.Sc., M.L.A.....*Vice-Chairman*
J. ALBERT SMITH, M.L.A.....*Commissioner*
R. T. JEFFERY, B.Sc.....*Acting Secretary and Controller and
Chief Municipal Engineer*

To His Honour

THE HONOURABLE ALBERT MATTHEWS, LL.D.,

Lieutenant-Governor of Ontario

MAY IT PLEASE YOUR HONOUR:

The undersigned respectfully presents the Thirtieth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31st, 1937.

The record of the Commission's work presented in this Annual Report may be considered as relating to three principal fields—the municipal field, the field of rural supply and the Northern Ontario field. The first two comprise its activities on behalf of the co-operative systems and the last relates to its trusteeship of the Northern Ontario Properties on behalf of the Province. Throughout the various sections of the Report, dealing broadly with physical operation of the plants, constructional activities and financial statements, these fields of activity are clearly differentiated. The Report also presents for the calendar year 1937 financial statements and statistical data relating to the municipal electric utilities operating in conjunction with the various systems of the Commission for the supply of electrical service to the citizens of the Province.

Operating Conditions

Throughout the fiscal year ended October 31, 1937, operating conditions were unusually favourable. Relatively little damage to lines and equipment was caused by lightning, sleet or gales and interruptions to service were small both in duration and in areas affected. Much of the freedom from trouble is due to the policy of systematic testing and replacement of defective insulators and apparatus and to the employment of relays and automatic switches of modern design. In the section of the report dealing with the operation of the systems, sufficient information respecting the maintenance work carried out during the year is given to indicate the thoroughness exercised in maintaining the efficiency of the Commission's plant and equipment. Continuity of operation is increasingly demanded in rural, as well as in urban communities.

DISTRIBUTION OF PRIMARY POWER TO SYSTEMS
20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PRIMARY PEAKS

System	1936	1937
	October	
Niagara system, 25-cycle.....	935,254	1,036,997
Dominion Power & Transmission.....	54,021	57,507
Georgian Bay system.....	26,555	29,310
Eastern Ontario system.....	111,421	125,395
Thunder Bay system.....	83,090	88,800
Manitoulin rural power district.....	138	137
Northern Ontario Properties:		
Nipissing district.....	4,115	4,812
Sudbury district.....	14,021	14,611
Abitibi district.....	76,944	93,834
Espanola district.....	101	0
Patricia district.....	4,182	5,013
St. Joseph district.....	1,702	2,708
Total.....	1,311,544	1,459,124
	December	
Niagara system, 25-cycle.....	1,005,630	1,070,778
Dominion Power & Transmission.....	55,898	56,032
Georgian Bay system.....	28,512	31,314
Eastern Ontario system.....	119,705	124,718
Thunder Bay system.....	80,858	85,235
Manitoulin rural power district.....	143	141
Northern Ontario Properties:		
Nipissing district.....	4,531	4,705
Sudbury district.....	15,147	16,153
Abitibi district.....	73,727	95,576
Espanola district.....	522	0
Patricia district.....	4,062	5,201
St. Joseph district.....	2,145	2,761
Total.....	1,390,880	1,492,614

Stream flow conditions also were more favourable than in the previous year. The customary seasonal reduction in stream flow available to the plants of the Georgian Bay and Eastern Ontario systems was made good in the Georgian Bay system by the transfer of power from the Niagara system, and in the Eastern Ontario system by power from the frequency-changer set at Chats Falls.

Load Conditions

The primary load on all systems, that is the sum of the primary peak loads for the year on the several systems, amounted to 1,468,222 horsepower. This is the highest aggregate primary load ever carried on the systems and is an increase of 150,000 horsepower or 11.4 per cent as compared with the corresponding figure for the previous year.

DISTRIBUTION OF POWER TO SYSTEMS—TOTAL PRIMARY AND SECONDARY
20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PEAKS

System	1936	1937
	October	
Niagara system, 25-cycle.....	1,006,166	1,126,675
Dominion Power & Transmission.....	54,021	57,507
Georgian Bay system.....	26,555	29,310
Eastern Ontario system.....	117,969	129,584
Thunder Bay system.....	133,914	134,678
Manitoulin rural power district.....	138	137
Northern Ontario Properties:		
Nipissing district.....	4,115	4,812
Sudbury district.....	14,021	14,611
Abitibi district.....	146,783	143,432
Espanola district.....	101	0
Patricia district.....	4,182	5,013
St. Joseph district.....	1,702	2,708
Total.....	1,509,667	1,648,467
	December	
Niagara system, 25-cycle.....	1,056,032	1,235,523
Dominion Power & Transmission.....	55,898	56,032
Georgian Bay system.....	28,512	31,314
Eastern Ontario system.....	125,999	149,853
Thunder Bay system.....	143,432	132,038
Manitoulin rural power district.....	143	141
Northern Ontario Properties:		
Nipissing district.....	4,531	4,705
Sudbury district.....	15,147	16,153
Abitibi district.....	157,507	159,517
Espanola district.....	522	0
Patricia district.....	4,062	5,201
St. Joseph district.....	2,145	2,761
Total.....	1,593,930	1,793,238

As in other recent years the percentage gains in load in the northern part of the Province were greater than in southern Ontario. The accompanying tabulation shows the distribution of primary power to the co-operative systems and to the several districts of the Northern Ontario Properties for the years 1936 and 1937; similar data for the total primary and secondary power distributed is also given.

Additions to Generating Equipment

There are still many undeveloped power sites in southern Ontario and also certain developments that by being modernized can be made to con-

tribute economically to the power supplies of the smaller systems; but power supplies sufficient to take care of normal growth in load of the Niagara system must come from large developments. In southern Ontario the undeveloped hydraulic powers of the required magnitude are on international or inter-provincial rivers. Apart from the protracted negotiations, which would inevitably precede agreements permitting the start of such developments, the actual construction period would be measured in years.

Notwithstanding the purchase of large blocks of power, chiefly for the Niagara system, it has been and still is the policy of the Commission to own and when practicable to develop additional economical sources of power in Ontario. During the past year therefore development or control of additional supplies of power from sources in Ontario has been arranged for in several localities.

In the Georgian Bay system the construction of a new 10,000 horsepower generating station on the Musquash river, the outlet to Georgian Bay from the Muskoka lakes, was commenced. It is to be completed in 1938.

In the Eastern Ontario system the Commission, in November, 1936, approved the purchase of three plants on the Otonabee river, the property of the Canada Cement Company. These plants are known as Douro at lock 24, with a capacity of 1,000 horsepower; Lakefield at lock 26, capacity 2,600 horsepower, and Young's Point at lock 27, capacity 600 horsepower. The Douro plant was rehabilitated and came into service at the end of July 1937. During the year the Commission also obtained control of two plants, formerly the property of the Quinte and Trent Valley Power Company. These plants are known as the Sills Island generating station at Frankford, capacity 2,200 horsepower and the Campbellford generating station of 1,000 horsepower. One factor that has made it practicable to include these small plants in a modern electric supply system is the advance made in the design of remote control and automatic equipment.

To augment the power supply of the Nipissing and Sudbury districts the Commission purchased from the Abitibi Power and Paper Company its plant at Crystal Falls on the Sturgeon river. This plant has a capacity of 10,000 horsepower.

Water Storage

In order to increase the low water flow of the Abitibi river and thereby the dependability of the power available at the Abitibi Canyon development, the Commission has started the construction of a storage dam to control Frederick House and Night Hawk lakes on the upper waters of the river. As certain incidental benefits to local navigation will result from this improvement the Provincial Government is defraying a proportion of the cost.

Increased Transmission and Distribution Facilities

During the year it has been necessary to provide increased transmission and distribution facilities in many districts.

In the Niagara system the transformer capacities of the 110,000-volt stations at Hamilton, Thorold, London and York are being increased. In the Georgian Bay system an additional section was changed over to 38,000-volt operation. This involved some new 38,000-volt line, extensive alterations in the auto-transformer station at Eugenia and the construction of a 6,000 kv-a auto-transformer station at Fergusonvale.

In the Eastern Ontario system about 120 miles of 110,000-volt circuit was erected between Chats Falls and a new 15,000 kv-a transformer station at Trenton. In the Thunder Bay system a 110,000-volt circuit about 100 miles long was built from Cameron Falls to a 9,000 kv-a transformer station under construction in the Long Lac area. A 450-kv-a distribution station was installed in the mining town of Geraldton and a 200-kv-a station was constructed at Beardmore.

In the Northern Ontario Properties an additional 4,500-kv-a transformer bank was installed at Timmins and the newly purchased Crystal Falls plant was connected to Coniston generating station.

In all, nearly 225 miles of 110,000-volt transmission lines and 117 miles of 44,000 and less voltage lines were built. This is exclusive of the extension to primary lines in rural power districts. Ten new distribution stations were installed throughout the various systems and the capacity of nineteen others was increased.

Rural Electrical Service

During the past year there took place the greatest expansion in rural electrical service on record. The total mileage of rural primary lines approved for construction was 2,300, substantially exceeding the previous high of 1,894 miles in 1930, and equalling in one year the mileage approved for construction in the five previous years 1932 to 1936. Some 13,000 new rural consumers were connected to the lines during the year. About half of these were new consumers on existing lines and half were new consumers on extensions built during the year.

To construct the new primary lines authorized during the year, and to provide equipment to serve new rural customers on existing lines required a capital expenditure of about \$5,000,000. Approximately half of this is provided by the Provincial government as a grant-in-aid.

The following table shows, for the past decade, the miles of line approved for construction and the number of additional customers served each year; also the total estimated cost and the government grant-in-aid. It also gives the aggregate load in horsepower in October. Chiefly owing to the fact that a large number of summer cottages are served in connection with rural power districts, the rural peak occurs in July and August. The October peak is a better indication of the normal rural load growth.

TEN YEARS GROWTH IN RURAL ELECTRICAL SERVICE

Year	Miles of primary line approved	Number of consumers added	Capital approved for extensions	Provincial grants-in-aid approved	Horsepower supplied in October	Total number of consumers served
Up to 1927	3,134	25,283	\$ 6,683,601	\$ 3,332,286	13,273	25,283
1928	956	5,780	2,268,170	1,132,423	16,980	31,063
1929	1,157	6,277	2,668,241	1,334,120	21,138	37,340
1930	1,894	9,375	4,083,840	2,041,920	26,782	46,715
1931	1,249	8,886	2,644,702	1,299,071	31,790	55,601
1932	524	3,933	1,123,742	561,871	32,853	59,534
1933	247	2,311	590,862	295,431	32,372	61,845
1934	183	1,995	590,293	295,146	33,949	63,840
1935	538	3,962	1,423,745	707,882	37,190	67,802
1936	810	5,812	2,153,796	1,074,323	42,897	73,614
1937	2,297	12,580	5,743,061	2,860,010	50,758	86,194
Up to 1937	13,117	86,194	30,035,958	14,935,486	50,758	86,194

NOTE—The foregoing statistics relate to the miles of line approved for construction each year. The actual mileage constructed during the fiscal year varies from these figures but over a period of years is substantially the same in total.

Further substantial reductions were made during the fiscal year in the rates to rural consumers. On December 1, 1936, the service charge to ordinary farm classes was reduced to a maximum of \$1.00 per month net, and in August 1937 this reduction was extended to all hamlet classes, except to summer cottages using electric stoves or other large appliances requiring a three-wire service. Insufficient time has elapsed since the last reduction was put into force to determine the full effect of these reductions upon the financial operation of the rural power districts. The low rates, however, have unquestionably stimulated a demand for the construction of primary lines to many areas not hitherto able to apply for service. The increase in the number of consumers on existing lines is especially satisfactory as when these new consumers have had time to install the necessary equipment the additional revenue derived will partially offset the reduced revenues from existing customers.

Capital Expenditures

The extensions to generating stations, transmission lines and distribution networks, storage works, etc., during the year, have required capital expenditure of about \$8,041,000 as follows:—

CAPITAL ADDITIONS YEAR ENDED OCTOBER 31, 1937

Niagara system.....	\$1,182,000
Georgian Bay system.....	954,000
Eastern Ontario system.....	1,831,000
Thunder Bay system.....	758,000
Manitoulin and Nipissing rural power districts.....	12,000
Northern Ontario Properties.....	1,584,000
	<u>\$6,321,000</u>
Provincial rural grant (To October 31).....	1,720,000
Total.....	<u>\$8,041,000</u>

CAPITAL INVESTMENT

The total investment of The Hydro-Electric Power Commission of Ontario in power undertakings and hydro-electric railways is \$305,372,410.22, exclusive of government grants in respect of construction of rural power districts' lines (\$11,951,891.63); and the investment of the municipalities in distributing systems and other assets is \$119,049,761.67, making in power and hydro-electric railway undertakings a total investment of \$424,422,171.89.

The following statement shows the capital invested in the respective systems, districts and municipal undertakings, etc.:

Niagara system (including Hamilton street railway).....	\$211,913 157.81
Georgian Bay system.....	9,570,008.21
Eastern Ontario system.....	21,335,647.75
Thunder Bay system.....	19,477,394.17
Manitoulin rural power district.....	42,758.67
Nipissing rural power districts.....	35,189.12
Bonnechere storage.....	51,741.88
Office and service buildings.....	3,107,802.30
Construction plant and inventories.....	2,543,014.30
Preliminary surveys—St. Lawrence, Ottawa and Ogoki rivers.....	982,302.67
	<hr/>
	\$269,059,016.88
Northern Ontario Properties—Operated by H-E.P.C. on behalf of the Province of Ontario.....	33,738,073.77
Northern Ontario Properties—Construction plant and inventories.....	108,682.11
Guelph Radial Railway—Operated by H-E.P.C. on behalf of the Municipality of Guelph.....	461,201.06
Toronto-Port Credit-St. Catharines Radial Railways.....	2,005,436.40
	<hr/>
	\$305,372,410.22
Municipalities' distribution systems.....	95,732,133.33
Other assets of municipal Hydro utilities.....	23,317,628.34
	<hr/>
	<u>\$424,422,171.89</u>

RESERVES OF COMMISSION AND MUNICIPAL ELECTRIC UTILITIES

The total reserves of the Commission and the municipal electric utilities for depreciation, contingencies, stabilization of rates, sinking fund and insurance purposes amount to \$184,016,209.78, made up as follows:

Niagara system (including Hamilton street railway).....	\$74,898,520.79
Georgian Bay system.....	4,226,757.37
Eastern Ontario system.....	8,358,674.05
Thunder Bay system.....	5,319,630.44
Manitoulin rural power district.....	9,655.70
Nipissing rural power districts.....	12,506.90
Office and service buildings and equipment.....	927,856.04
Bonnechere storage.....	11,519.37
	<hr/>
Total reserves in respect of Commission's properties.....	\$93,765,120.66
Northern Ontario Properties.....	3,345,089.28
Guelph Radial Railway.....	186,735.41
Fire insurance reserve.....	73,427.42
Miscellaneous reserves.....	137,981.99
Employers' liability, insurance and staff pension reserves.....	6,069,280.86
	<hr/>
Total reserves of the Commission.....	\$103,577,635.62
Total reserves and surplus of municipal electric utilities.....	80,438,574.16
	<hr/>
Total Commission and municipal reserves.....	<u>184,016,209.78</u>

COMPARATIVE FINANCIAL STATEMENTS

NIAGARA SYSTEM

	1936	1937
	\$ c.	\$ c.
OPERATING EXPENSES AND FIXED CHARGES		
Power purchased.....	3,110,848.14	3,836,382.42
Operation, maintenance and administration.....	4,461,243.58	4,491,192.50
Interest.....	10,079,221.26	9,507,517.24
Provision for depreciation and obsolescence.....	1,631,383.24	1,535,172.54
Provision for contingencies.....	604,475.08	604,061.68
Provision for stabilization of rates.....	1,963,599.60	2,337,400.00
Sinking fund.....	2,109,394.94	2,116,646.19
TOTAL COST OF POWER.....	23,960,165.84	24,428,372.57
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts.....	24,365,449.12	24,703,427.00
Net balance credited to municipalities under cost contracts.	405,283.28	275,054.43

GEORGIAN BAY SYSTEM

	1936	1937
	\$ c.	\$ c.
OPERATING EXPENSES AND FIXED CHARGES		
Power purchased.....	53,545.91	56,168.59
Operation, maintenance and administration.....	379,933.24	407,895.94
Interest.....	402,626.68	394,273.33
Provision for depreciation and obsolescence.....	131,661.80	121,371.85
Provision for contingencies.....	28,079.05	28,221.24
Provision for stabilization of rates.....	.....	79,548.60
Sinking fund.....	89,697.31	92,039.78
TOTAL COST OF POWER.....	1,085,543.99	1,179,519.33
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts.....	1,137,998.72	1,204,168.95
Net balance credited to municipalities under cost contracts.	52,454.73	24,649.62

RESPECTING THE SYSTEMS OF THE COMMISSION

EASTERN ONTARIO SYSTEM

	1936	1937
OPERATING EXPENSES AND FIXED CHARGES		
	\$ c.	\$ c.
Power purchased.....	869,352.72	860,445.93
Operation, maintenance and administration.....	819,378.24	869,431.57
Interest.....	889,036.20	899,144.29
Provision for depreciation and obsolescence.....	251,545.62	233,212.79
Provision for contingencies.....	57,884.54	59,938.67
Provision for stabilization of rates.....	.....	240,499.00
Sinking fund.....	187,230.65	194,453.23
TOTAL COST OF POWER.....	3,074,427.97	3,357,125.48
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts.....	3,263,920.73	3,480,076.27
Net balance credited to municipalities under cost contracts.	189,492.76	122,950.79

THUNDER BAY SYSTEM

	1936	1937
OPERATING EXPENSES AND FIXED CHARGES		
	\$ c.	\$ c.
Power purchased.....	.....	.....
Operation, maintenance and administration.....	242,644.51	303,862.40
Interest.....	897,562.99	882,602.58
Provision for depreciation and obsolescence.....	159,401.00	159,220.92
Provision for contingencies.....	85,856.94	85,706.48
Provision for stabilization of rates.....	.....	123,423.00
Sinking fund.....	148,812.06	253,889.59
TOTAL COST OF POWER.....	1,534,277.50	1,808,704.97
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts.....	1,565,806.81	1,815,285.87
Net balance credited to municipalities under cost contracts.	31,529.31	6,580.90

REVENUE OF COMMISSION

The revenue of the Commission at interim rates from the municipal utilities operating under cost contracts, from customers in rural power districts and from other customers with whom—on behalf of the municipalities—the Commission has special contracts, all within the Niagara, Georgian Bay, Eastern Ontario and Thunder Bay systems, Manitoulin Island and Nipissing rural power districts aggregates \$31,225,988.90. The revenue of the Commission from customers served by the Northern Ontario properties, which are held and operated in trust for the Province, is \$2,967,796.56, making a total of \$34,193,785.46.

Summarized operating results of these systems and rural power districts and of the Northern Ontario properties, follow:

SUMMARIZED OPERATING RESULTS

OF THE

NIAGARA, EASTERN ONTARIO, GEORGIAN BAY, THUNDER BAY SYSTEMS

AND ALSO

NIPISSING AND MANITOULIN RURAL POWER DISTRICTS

Revenue; amount received from or billed against municipalities and other customers.....	\$28,138,987.71	
Revenue from customers in rural power districts.....	3,087,001.19	
Total revenue, systems and rural		\$31,225,988.90
Operation, maintenance, administration, interest and other current expenses.....	\$22,526,349.13	
Provision for reserves—		
Depreciation and obsolescence.....	\$2,050,275.40	
Contingencies.....	777,928.07	
Stabilization of rates.....	2,780,870.60	
Sinking fund.....	2,657,742.67	
	8,266,816.74	
		30,793,165.87
Net balance credited to municipalities under cost contracts.....		\$ 432,823.03

SUMMARIZED OPERATING RESULTS

OF THE

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

Revenue; amount received from or billed against municipalities and other customers.....	\$ 2,967,796.56	
Operation, maintenance, administration, interest and other current expenses.....	\$ 1,814,121.47	
Provision for reserves—		
Depreciation and obsolescence.....	\$ 282,623.85	
Contingencies.....	64,820.77	
Sinking fund.....	884,098.07	
	1,231,542.69	
		3,045,664.16
Deficiency after sinking fund appropriation.....		\$ 77,867.60

MUNICIPAL ELECTRIC UTILITIES

The following is a summation of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities	\$34,165,476.48
Cost of power	\$20,532,736.85
Operation, maintenance and administration	5,661,203.97
Interest	1,752,287.58
Sinking fund and principal payments on debentures	2,429,565.06
Depreciation and other reserves	2,329,625.64
Total	32,705,419.10
Surplus	\$ 1,460,057.38

With regard to the local Hydro utilities operating under cost contracts, the following statements summarize for each of the four co-operative systems administered by the Commission, the financial status and the year's operations as detailed in Section X of the Report.

NIAGARA SYSTEM

The total plant assets of the Niagara system utilities amount to \$81,464,058.63. The total assets, including an equity in the H-E.P.C. of \$35,053,984.34 aggregate \$135,250,883.10. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in the H-E.P.C., amount to \$65,106,044.52, an increase of \$4,561,441.50 during the year 1937. The percentage of net debt to total assets is 27.3, a reduction of 3.5 per cent.

The total revenue of the municipal electric utilities served by this system was \$27,655,224.96, a decrease of \$337,555.15, as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to \$1,901,998.51, and providing \$2,231,159.43 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Niagara system amounted to \$998,132.08, as compared with \$1,250,210.02 the previous year.

GEORGIAN BAY SYSTEM

The total plant assets of the Georgian Bay system utilities amount to \$2,833,961.93. The total assets, including an equity in the H-E.P.C. of \$1,301,000.37 aggregate \$4,734,498.14. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in H-E.P.C., amount to \$2,946,917.89, an increase of \$104,989.24 during the year 1937. The percentage of the net debt to total assets is 13.9, a reduction of 1.7 per cent.

The total revenue of the municipal electric utilities served by this system was \$1,214,887.41, an increase of \$21,105.72, as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to \$83,412.64, and providing \$51,668.60 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Georgian Bay system amounted to \$48,756.13, as compared with \$102,948.47 the previous year.

EASTERN ONTARIO SYSTEM

The total plant assets of the Eastern Ontario system utilities amount to \$8,192,454.61. The total assets, including an equity in the H-E.P.C. of \$1,706,790.06, aggregate \$12,493,505.32. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in H-E.P.C., amount to \$8,530,708.45, an increase of \$434,918.37 during the year 1937. The percentage of net debt to total assets is 14.0, a reduction of 1.9 per cent.

The total revenue of the municipal electric utilities served by this system was \$3,565,496.87, an increase of \$39,021.76, as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to \$212,334.00, and providing \$102,111.74 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Eastern Ontario system amounted to \$290,449.54, as compared with \$418,299.40 the previous year.

THUNDER BAY SYSTEM

The total plant assets of the Thunder Bay system utilities amount to \$2,626,951.22. The total assets, including an equity in the H-E.P.C. of \$1,970,663.57, aggregate \$5,899,738.05. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in H-E.P.C., amount to \$3,367,482.06, an increase of \$55,401.61 during the year 1937. The percentage of net debt to total assets is 9.4, a reduction of 0.4 per cent.

The total revenue of the municipal electric utilities served by this system was \$1,315,931.40, a decrease of \$9,138.11, as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to \$42,359.57, and providing \$11,676.67 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Thunder Bay system amounted to \$64,835.16, as compared with \$117,181.35 the previous year.

*

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As recorded on the back of the title page to this Report, the personnel of the Commission was changed on November 1, 1937. The statistical data relating to the Commission and presented in this Report are for the fiscal year ended October 31, 1937, and therefore, in the main, record the progress of the undertaking prior to that change. It will be noted that in this Report the method of presenting the statistical data follows closely that of the previous year's Report.

Respectfully submitted,

T. H. HOGG,

Chairman

TORONTO, ONTARIO, MARCH 31ST, 1938

T. H. HOGG, Esq., B.A.Sc., C.E., D.ENG.,

*Chairman, The Hydro-Electric Power Commission of Ontario,
Toronto, Ontario,*

Sir,—I have the honour to submit, herewith, the Thirtieth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1937. This report covers the operations of the Commission with regard to the supply of power to, or on behalf of, the partner Municipalities of the various Systems, as well as the administration of the Northern Ontario Properties, which are held and operated by the Commission in trust for the Province of Ontario.

I have the honour to be,

Sir,

Your obedient servant,

R. T. JEFFERY,

Acting Secretary and Controller

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THIRTIETH ANNUAL REPORT
OF
The Hydro-Electric Power Commission
of Ontario

FOREWORD
and
Guide to the Report

THE Hydro-Electric Power Commission of Ontario administers a co-operative municipal-ownership enterprise, supplying power throughout the Province of Ontario. The Commission was created in 1906 by special act of the Legislature and followed investigations by advisory commissions appointed as a result of public agitation to prevent monopoly and to provide a more satisfactory supply of low-cost power in Southern Ontario. In 1907 The Power Commission Act (7-Edward VII Ch. 19) was passed amplifying and extending the Act of 1906 and this Act—modified by numerous amending acts which now form part of the Revised Statutes of Ontario, 1937, Chap. 62—constitutes the authority under which the Commission operates.

The Hydro-Electric Power Commission of Ontario consists of a Chairman and two Commissioners, all of whom are appointed by the Lieutenant-Governor-in-Council to hold office during pleasure. One of the Commissioners must be a member of the Executive Council and two may be members.

In 1909, work was commenced on a comprehensive transmission system and by the end of 1910 power was being supplied to several municipalities.

The Commission has now been supplying electrical energy for more than twenty-seven years and the Report contains diagrams depicting the growth of the enterprise. During this period the costs of electricity to the consumer have been substantially reduced and the finances of the enterprise have been established on a secure foundation.

At the end of 1937 the Commission was serving 795 municipalities in Ontario. This number included 26 cities, 100 towns, 277 villages and police villages and 392 townships. With the exception of 14 suburban sections of townships known as "voted areas", the townships and 96 of the smaller villages are served as parts of 177 rural power districts.

Financial Features of Co-operative Systems

The basic principle governing the financial operations of the undertaking is, that electrical service be given by the Commission to the municipalities and by the municipalities to the ultimate consumers at cost. Cost includes not only all operating and maintenance charges, interest on capital investment and reserves for renewals or depreciation, for obsolescence and contingencies, and for stabilization of rates, but also a reserve for sinking fund or capital payments on debentures.

The undertaking from its inception has been entirely self-supporting and no contributions have been made from general taxes except in connection with service in rural power districts. In this case, the Province, in pursuance of its long established policy of assisting agriculture and with the approval of the urban citizens, assists extension of rural electrical service by a grant-in-aid of the capital cost and in other ways as specified and detailed in the Report.

As the principle of "service at cost" is radically different from that obtaining in private organizations, where profit is the governing feature, it naturally results in different and in some ways unique administrative features.

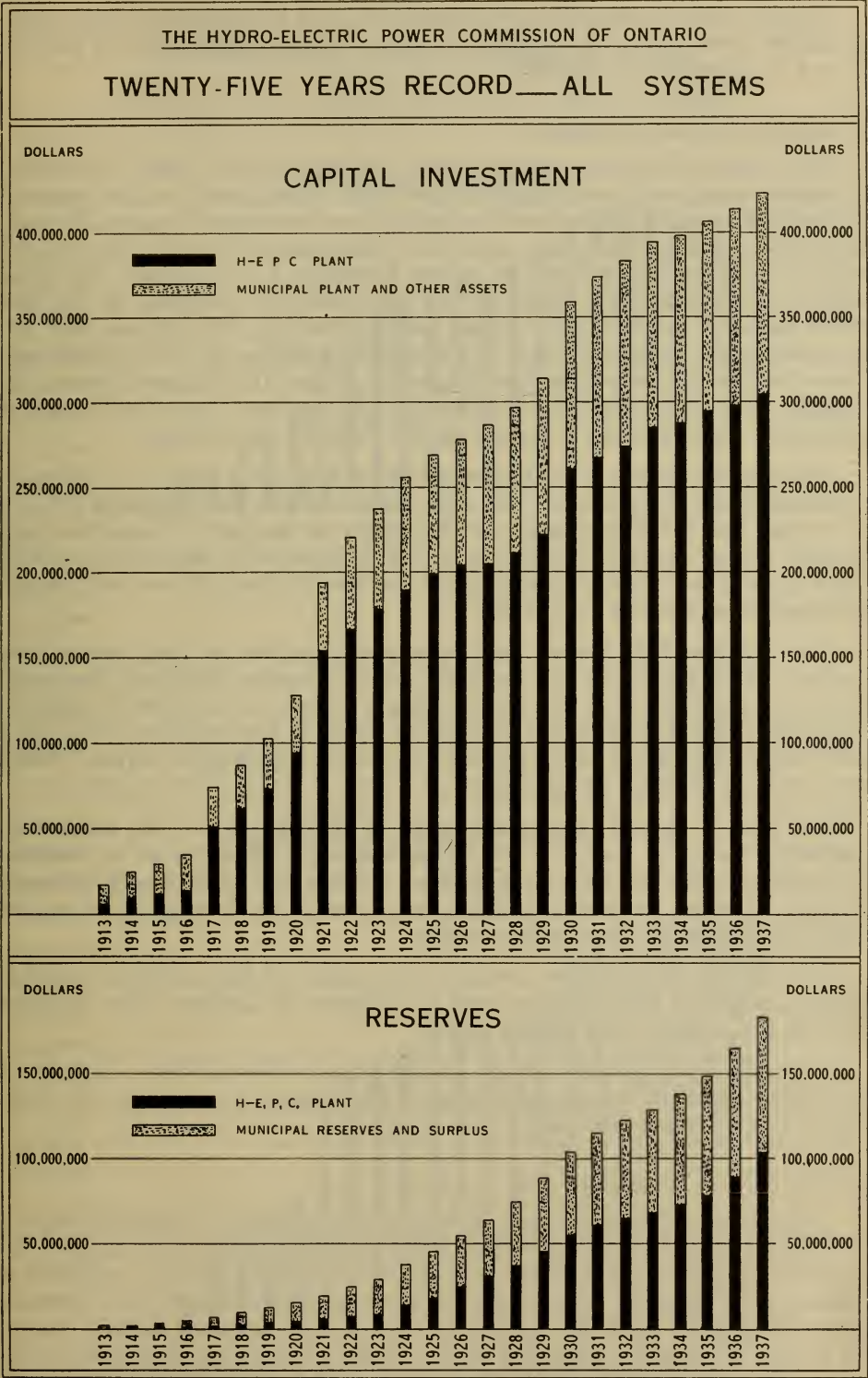
The undertaking as a whole involves two distinct phases of operations as follows:

The *First* phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems," and the financial statements relating to these collective activities of the municipalities are presented in Section IX of the Report. Each system of municipalities, as provided in *The Power Commission Act*, forms an independent financial unit and the accounts are therefore segregated and separately presented for each system. In order, however, that there may be a comprehensive presentation of the co-operative activities of the undertaking as a whole, there are presented, in addition, for the four main systems and miscellaneous co-operative activities, a balance sheet of assets and liabilities, a summarization of cost distributions, a tabulation of fixed assets, and a summary combined statement respecting the various reserves.

The *Second* phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and rural power districts. In the case of rural power districts, which usually embrace portions of more than one township, The Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers within the rural power districts. The financial statements relating to the rural power districts are also presented in Section IX of the Report.

In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of The Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to the individual urban electrical utilities are presented in Section X of the Report.

For the Northern Ontario Properties held and operated by the Commission in trust for the Province there are also presented in Section IX financial statements including a balance sheet; an operating account, and statements respecting reserves and capital expenditures.



Further details respecting administration, and explanations of the financial tables presented in the Report are given in the introductions to sections IX and X on pages 169 and 299.

Co-operative Systems Operating

From time to time in accordance with provisions in *The Power Commission Act* various groups of municipalities have been co-ordinated to form systems for the purpose of obtaining power supplies from convenient sources. In some cases these small systems grew until their transmission lines interlocked with those of adjacent systems and it proved beneficial to consolidate the transmission networks and the financial and administrative features. In the well settled parts of the Province, known as Old Ontario, this process has now reached a more stable condition and the municipalities of the southern part of the Province are now combined in three systems: the Niagara system, the Georgian Bay system and the Eastern Ontario system. One other system of partnership municipalities is known as the Thunder Bay system.

The Niagara System is the largest and most important system. It embraces municipalities in all the territory between Niagara Falls, Hamilton and Toronto on the east and Windsor, Sarnia and Goderich on the west. It is served with electrical energy generated at plants on the Niagara river, supplemented with power transmitted from generating plants on the Ottawa river and with power purchased from Quebec companies.

The Georgian Bay System comprises municipalities in that part of the Province which surrounds the southern end of Georgian Bay and lies to the north of the territory served by the Niagara system. It includes the districts surrounding lake Simcoe and extends as far north as Huntsville in the Lake of Bays district and south to Port Perry. Its power supplies are derived chiefly from local water power developments.

The Eastern Ontario System serves all of Ontario east of the areas comprising the Georgian Bay and the Niagara systems. It includes the districts of Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska; formerly separate systems. Its power supplies are from local developments supplemented by purchases from other sources.

The Thunder Bay System comprises the cities of Port Arthur and Fort William, adjacent rural sections and the village of Nipigon. Two developments on the Nipigon river supply power.

A small rural district known as *Manitoulin Rural Power District* on Manitoulin island in the northern area of lake Huron is served by the Commission as an independent unit.

Northern Ontario Properties

In addition to its operations on behalf of the partner municipalities, the Commission, under an agreement with the Province, holds and operates the Northern Ontario Properties in trust for the Province. For the purposes of financial administration these properties are treated as one unit. The Northern Ontario Properties lie in the portion of the Province north of Lake Nipissing and French River areas, exclusive of the territory served by the Thunder Bay system. The principal areas in this vast territory at present receiving service are

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
PROVINCIAL ADVANCES AND FUNDED DEBT



the *Nipissing District* centering around the city of North Bay on the shore of lake Nipissing; the *Sudbury District* comprising the city of Sudbury and the adjacent mining area known as Sudbury Basin; the *Abitibi District* comprising the territory served by 25-cycle power from the Abitibi Canyon development; the *Espanola District* in the southern portion of the district of Sudbury serving mining properties with 60-cycle power; the *Patricia District* comprising the territory within transmission distance of the Ear Falls development at the outlet of Lac Seul on the English river including the Red Lake mining area, and *St. Joseph District* comprising the territory immediately north of lake St. Joseph in the territorial district of Patricia served with power from a development at Rat Rapids on the Albany river.

The geographic boundaries of the various systems are shown on the map of transmission lines and stations at the back of the Report.

The power supplies for the systems and Northern Ontario districts are listed in the first table of Section II of the Report on pages 8 and 9.

The Annual Report

The table of contents, pages xix and xx lists the matters dealt with in the Report. At the end of the Report there is a comprehensive index. To those not conversant with the Commission's Reports, the following notes will be useful.

In Section II, pages 6 to 68, dealing with the operations of the systems, are a number of diagrams showing graphically the monthly loads on the several systems and districts. Tables are also presented showing the amounts of power taken by the various municipalities in October during the past three years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section III on pages 94 to 115.

In Sections IV, V and VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

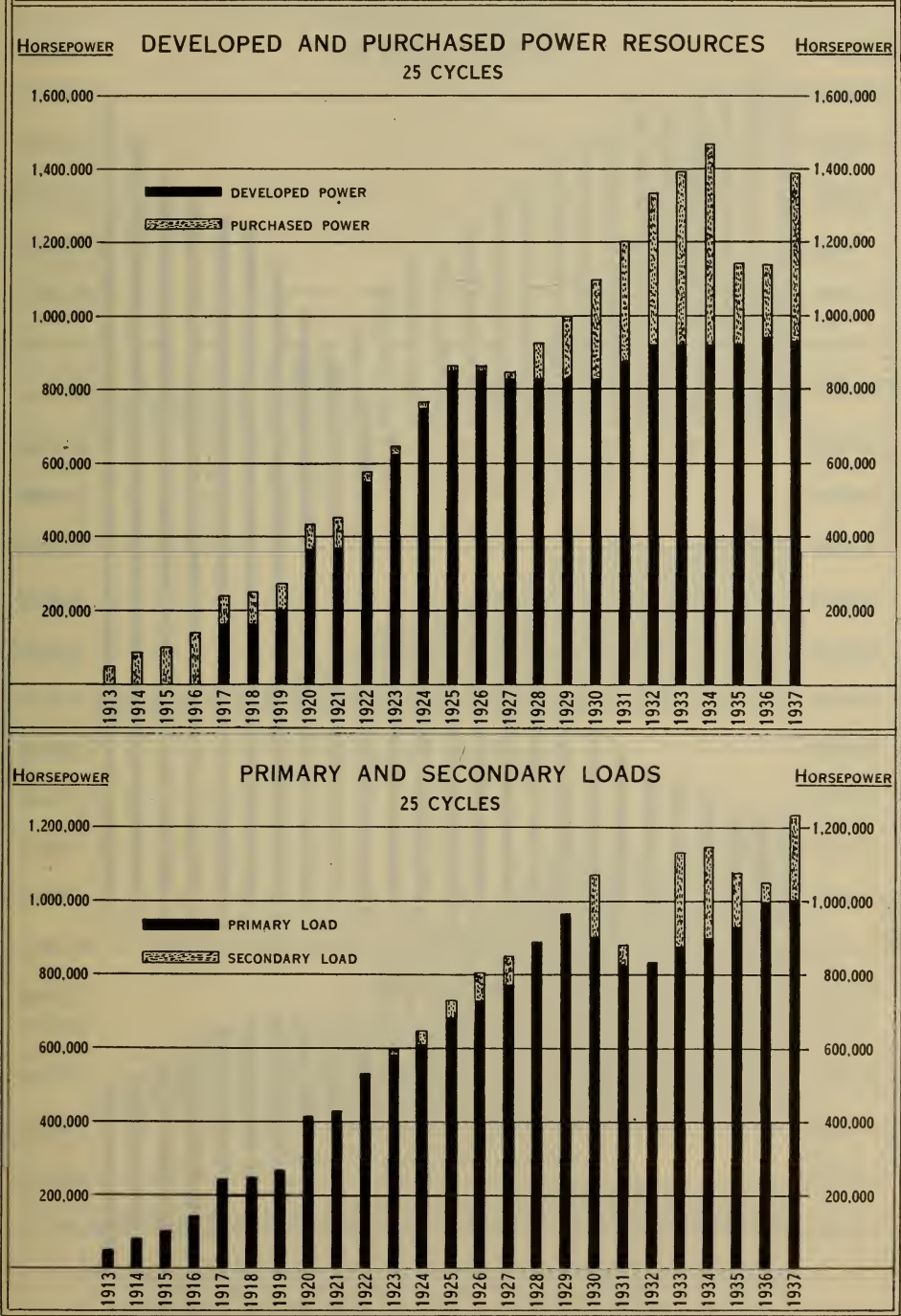
About one-half of the Report is devoted to financial and other statistical data which are presented in two sections IX and X already referred to above.

Frequent enquiries for the rates for service to consumers are received by the Commission. For the urban municipalities served by the Commission these are given in statement "E" starting on page 448. For the rural power districts they are given in a table starting on page 110. Certain statistical data resulting from the application of the rates in urban utilities are given in statement "D". This statement is prefaced by a special introduction starting on page 430.

In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements are suitably placed throughout the Report. The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases these enquiries can satisfactorily be answered by simply directing attention to information presented in the Annual Report.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

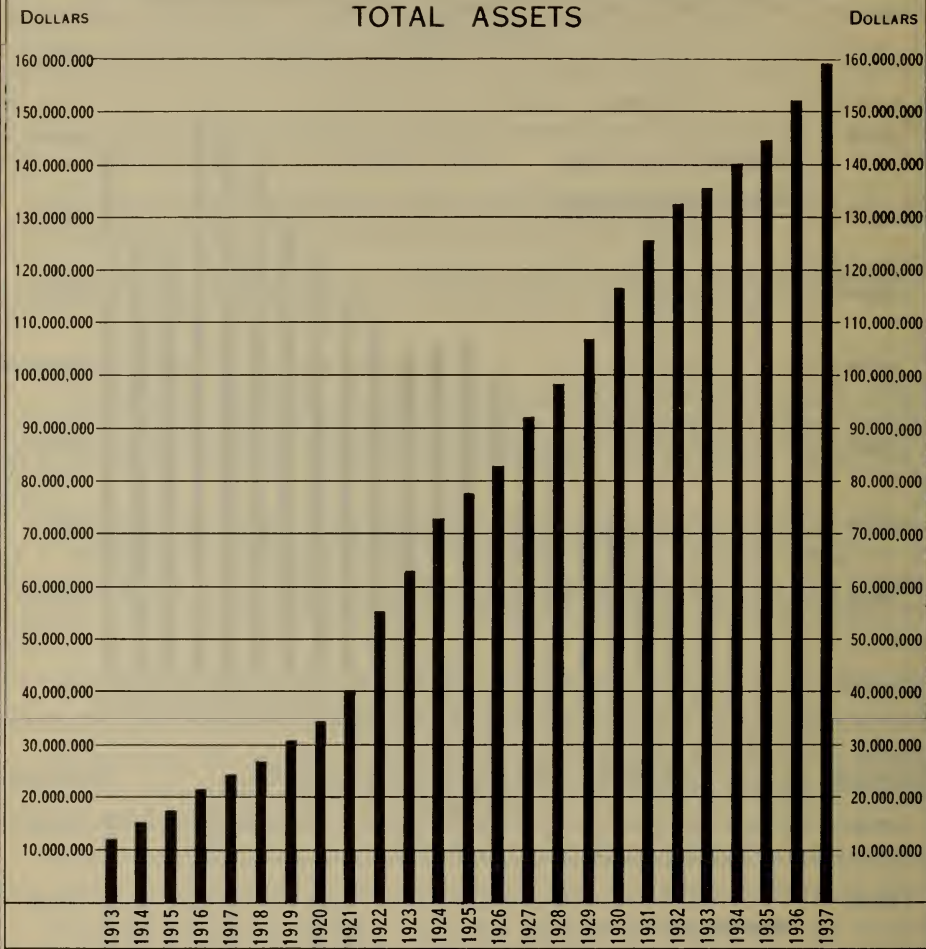
TWENTY-FIVE YEARS RECORD — NIAGARA SYSTEM



NOTE: Diagram depicts conditions for December, which correspond closely to winter peak conditions

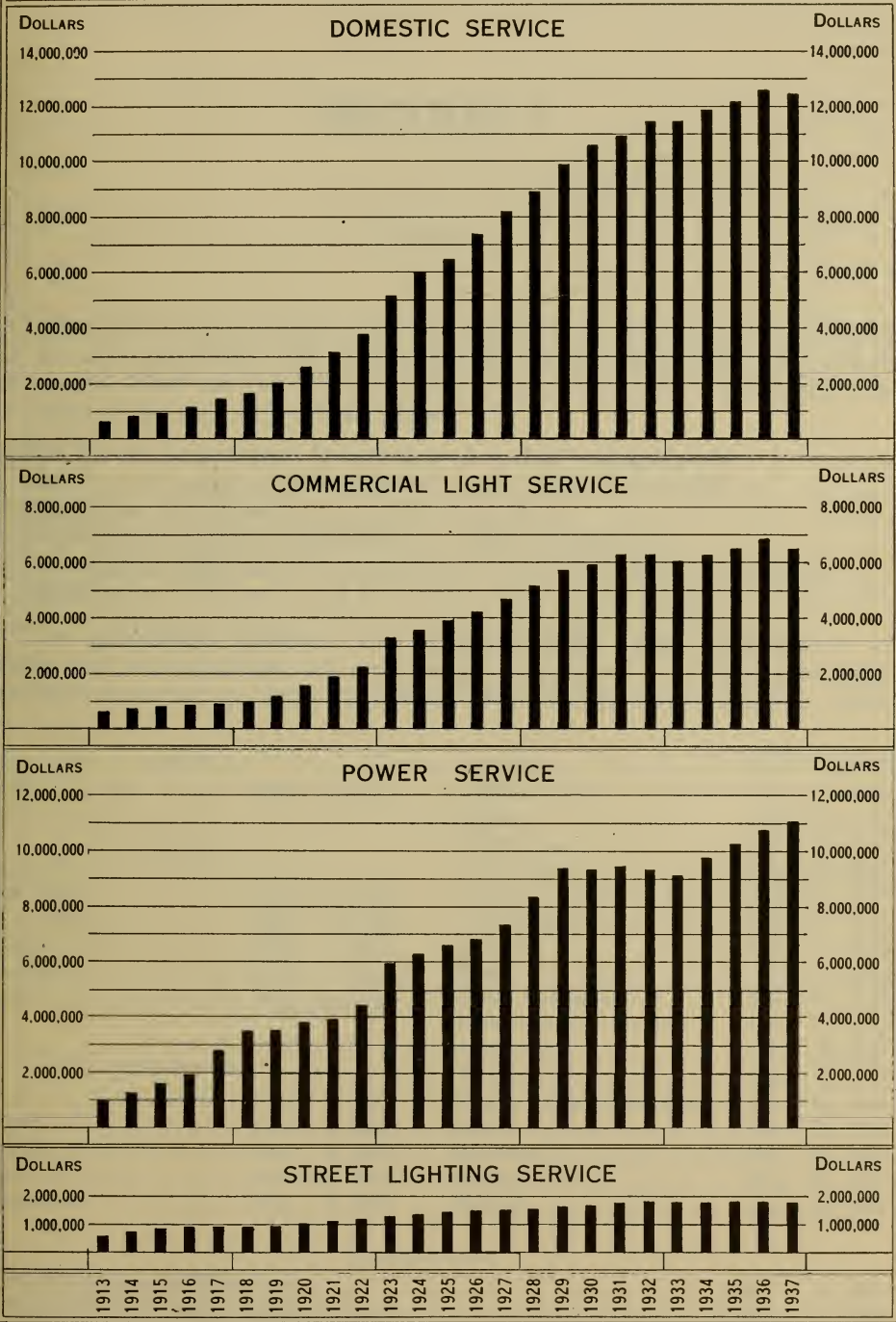
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES
TWENTY-FIVE YEARS RECORD



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES
TWENTY-FIVE YEARS REVENUES



SECTION I

LEGAL

AT the 1937 Session of the Legislative Assembly of the Province of Ontario six Acts respecting The Hydro-Electric Power Commission of Ontario were passed. They are reproduced in full in Appendix I of this Report. The short titles of the said Acts are as follows:

The Power Commission Declaratory Act, 1937, Chapter 58.
 The Power Commission Amendment Act, 1937, Chapter 59.
 The Power Commission Act, 1937, Chapter 60.
 The Power Contracts Validation Act, 1937, Chapter 61.
 The Shallow Lake and Tiverton Rural Power Act, 1937, Chapter 71.
 The Village of Vienna Rural Power Act, 1937, Chapter 80.

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities and corporations mentioned in the list hereunder given were approved by Order-in-Council, dated the 6th day of January, 1938.

CITIES

Windsor.....May 26, 1936

VILLAGES

Forest Hill.....Feb. 24, 1937
 Shallow Lake.....Aug. 4, 1937
 Swansea.....Mar. 9, 1937
 Tiverton.....Sept. 7, 1937
 Vienna.....Aug. 30, 1937

TOWNSHIPS

Arthur.....June 4, 1937
 Bayham.....Sept. 7, 1937
 Beckwith.....Oct. 2, 1937
 Carden.....April 20, 1937
 Collingwood.....Aug. 7, 1937

Cornwall.....April 5, 1937
 Crosby North.....Dec. 15, 1936
 Eldon.....April 28, 1937
 Kingston.....Feb. 10, 1937
 Lutterworth.....May 10, 1937
 McLean.....July 24, 1937
 McMurrich.....Sept. 25, 1937
 McNab.....Feb. 1, 1937
 Mono.....Nov. 6, 1936
 North Monaghan.....Dec. 15, 1936
 Palmerston and Canonto....Oct. 12, 1937
 Pickering.....Oct. 4, 1937
 Portland.....April 5, 1937
 Rear of Leeds & Lansdowne...Dec. 22, 1936
 Smith.....Dec. 19, 1936
 Snowden.....Jan. 29, 1937
 Stafford.....May 29, 1937
 Wilmot.....July 19, 1937

CORPORATIONS

Bankfield Consolidated Mines, Ltd.....Jan. 2, 1937
 Canadian Industrial Alcohol Company, Limited.....Nov. 1, 1936
 The Grand River Railway Company.....Nov. 2, 1936

CORPORATIONS—*Continued*

Hard Rock Gold Mines, Limited.....	Nov.	21, 1936
Jellicoe Consolidated Gold Mines, Limited.....	Mar.	12, 1937
The Lake Erie and Northern Railway Company.....	Nov.	2, 1936
Leitch Gold Mines, Limited.....	April	9, 1937
The Long Point Park Commission.....	June	9, 1937
Little Long Lac Gold Mines, Limited.....	Jan.	20, 1937
MacLeod-Cockshutt Gold Mines, Limited.....	July	23, 1937
Maple Leaf Milling Company, Limited (Port Colborne).....	Sept.	1, 1935
Maple Leaf Milling Company, Limited (Welland).....	Sept.	1, 1935
Northern Empire Mines Company, Limited.....	Dec.	16, 1936
Sand River Gold Mining Company, Limited.....	May	13, 1937
Strathcona Paper Company, Limited.....	Nov.	1, 1936
Tombill Gold Mines, Limited.....	Aug.	9, 1937

RIGHT-OF-WAY AND PROPERTY

The Commission as trustee for the co-operating municipalities of the several systems, and as trustee for the Provincial Government in Northern Ontario has vested in it, or controls through ownership of subsidiary companies, a large amount of real estate throughout the Province. This real estate comprises power sites, storage basins, land held to avoid consequential damages, right-of-way and lands occupied by generating stations, transformer and distributing stations, and administration buildings. In respect to the 6,000 miles of high-voltage transmission lines, and the 12,000 miles of distribution lines in rural power districts, the Commission's rights vary widely and include rights derived from direct ownership of right-of-way, rights held through easements, and leases of occupation with the privilege to overhang or tree trim thereon.

The Commission, where vested in the fee, endeavours to obtain from the lands under its jurisdiction the maximum revenue consistent with its own beneficial use. Lands which have come into the Commission's possession, and which are not immediately required for its purposes are, where possible, leased until the need arises for their use, and an endeavour is made to dispose of all lands not required.

The acquirement and administration of land owned, leased or controlled involves surveys, investigation of title, registrations, record, assessment and taxes.

In connection with the transmission and distribution networks throughout the Province, it is frequently necessary to obtain the approval of such controlling bodies as the Board of Railway Commissioners for Canada, Ontario Municipal Board, Department of Transport, Department of Public Works, Department of Indian Affairs, Department of Crown Lands, or other corporate body having jurisdiction over the lands involved.

The Year's Operations

During the past year a further endeavour to reduce the excess lands of the Commission was made and a number of miscellaneous properties were sold.

A further systematic check of land owned or acquired was undertaken with a view to disposing of other surplus lands and, consistent with use in connection with the works of the Commission, to procure more revenue from properties held.

Maintenance

A large number of dwellings and farm buildings owned by the Commission were rehabilitated and repaired in accordance with standards maintained. This resulted in an increase in revenue therefrom.

The construction of several transmission lines of major importance, a record year's expansion in rural distribution, and construction of important hydraulic works, involved an unusual amount of property negotiation, by purchase, lease or easement. Easements totalling 1,821 in number were secured, together with 483 crossing agreements and leases and 761 tree-trimming rights; of this number 766 easements have been registered and 316 tree-trimming agreements recorded. In the many properties affected, only seven owners referred the amount tendered in settlement to the Valuator appointed under the Power Commission Act.

Station Sites

Sites were purchased for transformer stations at Hamilton (Gage) and Fergusonvale, also for extensions to the London and St. Marys transformer stations. For the Northern Ontario Properties sites were purchased for transformer stations at Little Long Lac and Kirkland Lake and leased for one at Timmins.

Distributing station sites were purchased for extensions to Albion Park and Lyn, and for new stations at Beardmore, Geraldton, King Kirkland, and York Mills.

Rural station sites were purchased in Ingersoll, Cataraqui, and Picton.

Operator's dwelling sites were purchased at Empire, Jellicoe and McKirdy.

Purchase and Sales

Sale of properties formerly owned by the Toronto Suburban Railway and Metropolitan Railway was continued. Nearly all properties have now been sold; the right of the Commission to erect and maintain transmission lines thereon having been retained.

The sale of the right-of-way extending from Port Hope to Oshawa was also completed, subject to the retention of similar rights.

The former Brantford and Hamilton Electric Railway right-of-way extending from Hamilton to Ancaster was sold to the Department of Highways, Province of Ontario.

Settlements of a number of claims relating to property abutting Chats lake were made.

Several properties immediately affected by the works of the Ragged Rapids development were acquired, and damage claims in connection with this development were settled.

A large number of easements and rights were acquired in connection with the rapidly expanding electrical systems of Northern Ontario.

Surveys

A large number of field surveys were made, and monuments placed, the more important being in connection with the following:

Addition to transformer station site at London, transformer station sites of Stratford, St. Marys, York Mills and Dundas.

Distributing station sites at Newmarket, Ingersoll, Lyn, Geraldton and Beardmore.

Generating station sites at Ragged Rapids, Coniston, McVittie and Stinson.

Rural station sites at Picton and Cataraqui, and patrolmen's dwelling sites at Empire, McKirdy and Jellicoe.

Right-of-way from Cooksville to Georgetown and from Port Hope to Oshawa, to define limits over which the Commission retained rights after sale of property.

The transmission line serving Honey Harbour and a large number of crossings of navigable water, to meet the requirements of the Department of Transport.

To establish the limits of a large number of Niagara lands for fencing.

The crossing of the Trent Canal at Nassau.

On lands described in the deeds from the Quinte and Trent Valley Power Company at Frankford, Ranney Falls, and in the townships of Rawdon and Marmora.

Records

The following is a brief statistical summary of the records made:

	Number
1. Current deeds including plans copied and recorded.....	154
2. Plans and descriptions prepared for deeds of land and easements for transmission lines and all other developments	
(a) Purchase and sale of land.....	160
(b) Easements and leases.....	169
3. Indexing of the following was completed:	
(a) Deeds.....	155
(b) Tree trimming rights.....	316
(c) Transmission line easements.....	766

Taxes

A number of municipalities, in which are situated properties owned by the Commission, subject to taxation, were furnished with plans and details in connection therewith.

Lines in Rural Power Districts

Where possible, rural power lines are constructed on public highways or roads. In a few cases to avoid cutting trees, or owing to special local conditions, lines have been placed on private property. Frequently highway construction and improvement made it necessary to relocate existing lines.

Extensions to lines in rural power districts involved the acquisition of easements and tree trimming rights, in the Niagara, Georgian Bay, Eastern Ontario and Thunder Bay systems, and in the Nipissing district of the Northern Ontario Properties.

High- and Low-Voltage Transmission Lines

Right-of-way easements, leases, tree trimming, and crossing rights were negotiated for the various systems, among the more important were on lines,

In the **Niagara system**, Preston transformer station to Galt, Brant transformer station to Brantford, Thorold transformer station to St. Catharines' switching station, Gibson junction to Thorold transformer station, William street junction, Newmarket, to Sharon distributing station, Norwich junction to Tillsonburg, Drumquin to Hornby distributing station, Clark Street junction to Merriton, and Garden City junction to Garden City Pulp and Paper Company,

In the **Georgian Bay system**, Matchedash junction to Fergusonvale auto-transformer station, and Georgian Bay to Toronto telephone tie line,

In the **Eastern Ontario system**, Chats Falls to Trenton transformer station, Lakefield generating station to Auburn switching station, and Auburn switching station to Cavan junction,

In the **Thunder Bay system**, Cameron Falls generating station to Long Lac transformer station, Red Rock junction to Lake Sulphite Pulp station, Nezhah junction to Sturgeon River Gold Mines, Tombill Gold Mines, and to Bankfield Consolidated Gold Mines,

In the **Northern Ontario Properties**, Crystal Falls generating station to Coniston station in the Sudbury district; Larder Lake transformer station to Kir-Vit Gold Mines, Larder Lake transformer station to Kerr Addison Gold Mines, and Tisdale junction to Pamour transformer station in the Abitibi district.

SECTION II

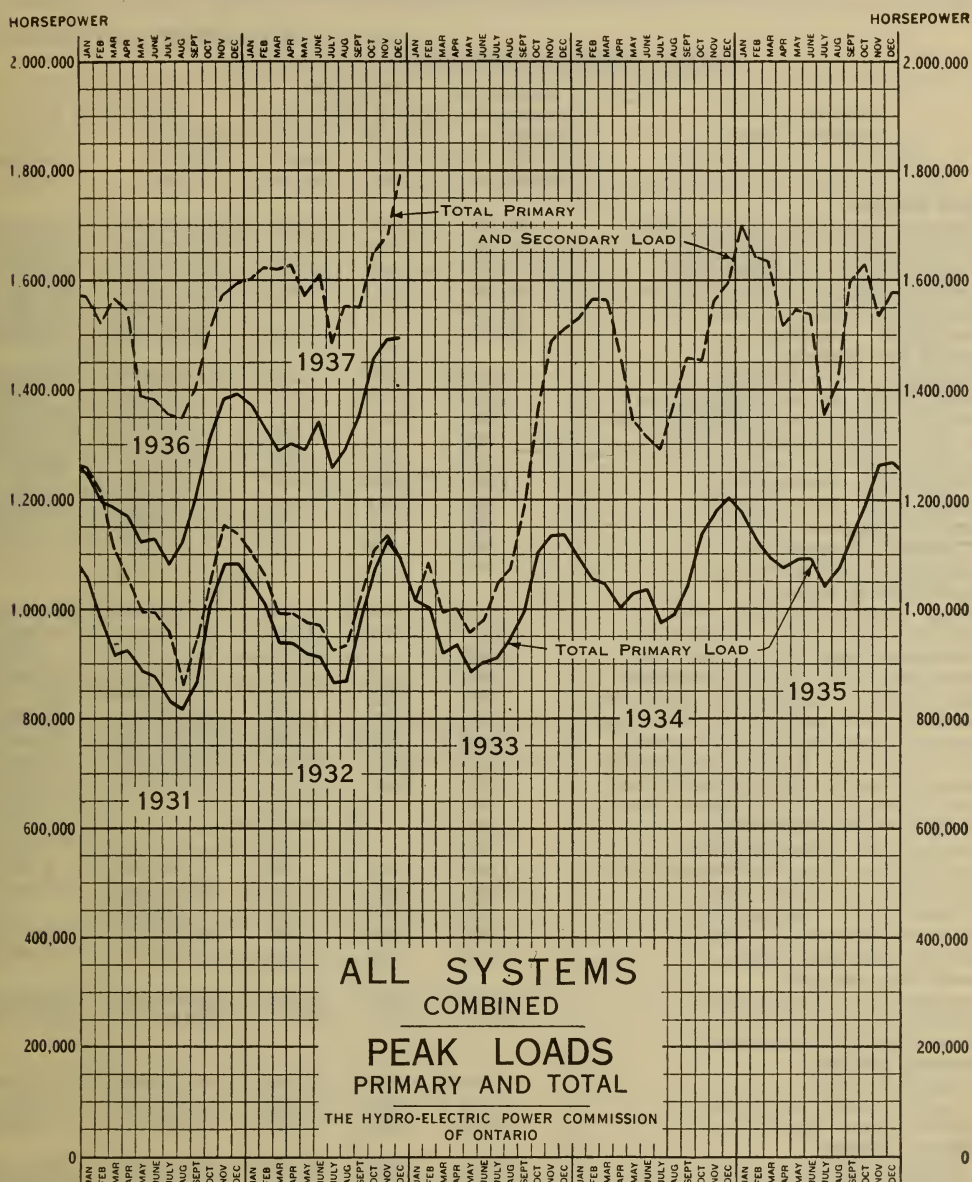
OPERATION OF THE SYSTEMS

OPERATING conditions were unusually favorable throughout the year. Lightning, sleet and gales, the chief enemies of electric power transmission, caused relatively little damage and interference with service was limited both in duration and in the areas affected. In the ordinary course of operation lightning and failures of insulation occur frequently, and the electrical surges which these set up impose severe electrical and mechanical stresses on neighbouring equipment and even on equipment many miles distant. During the past year the amount of damage sustained in this way has been slight, as indicated by the details given later in this section of the Report.

While satisfactory service and freedom from extensive damage to equipment may be partly attributed to favourable conditions during the year, a large part of the credit is due to the systematic inspection and maintenance work carried out on all lines and on station equipment. The continuous testing and the removal of defective insulators, bushings, contacts, coils and other parts of apparatus found defective, has done much to prevent serious failures developing. Relays of modern design, giving improved automatic operation of switches when trouble develops, have also aided in confining disturbances to limited areas.

Failures of equipment and the repairs made are outlined in this section of the Report under the respective systems and plants. Such information is given as a report of the year's work, and as an indication of the efficient condition in which equipment has been maintained. Routine inspection and preventive maintenance can only be described in a general way. The thoroughness with which this work has been performed is evidenced by the excellent service which has been given to customers generally. With the growing dependence of factories and homes upon continuous electric service, the importance of this type of maintenance work is constantly increasing.

Stream flow conditions also were generally favourable during the year. The usual seasonal decline of stream flow during the late summer and fall reduced the generating capacity of the Commission's plants on the Trent river, but the supply of power to the Eastern Ontario system was maintained through the use of Gattineau power and power supplied from Chats Falls through the frequency-changer set there. The Georgian Bay system also suffered some curtailment in capacity due to the seasonal reduction in stream flow, and additional power was taken from the Niagara system through the frequency-



changer sets at Hanover and Mount Forest. While both the Eastern Ontario and Georgian Bay system generating plants suffered reduction in capacity through lack of sufficient stream flow, conditions were more favourable in this respect than during the previous year. In the Nipissing district the stream flow was barely sufficient to carry the increased load. On the other systems the generating plants are not subject to as much curtailment in capacity through lack of stream flow, and water conditions generally were satisfactory. Some slight trouble was experienced in the Niagara river on March 2 and 3, 1937, due to ice jams which reduced the capacity of the Ontario Power plant by 10,000 horsepower, and Queenston plant by 25,000 horsepower. This condition, however, was of short duration.

TOTAL POWER GENERATED HYDRO-ELECTRIC GENERATING PLANTS

Generating plants	Maximum normal plant capacity Oct. 31, 1937 horsepower	Peak load during fiscal year		Total output during fiscal year	
		1935-36 horse-power	1936-37 horse-power	1935-36 kilowatt-hours	1936-37 kilowatt-hours
Niagara system					
Queenston-Chippawa—Niagara river.....	500,000	520,107	500,000	2,636,296,000	2,696,986,000
"Ontario Power"—Niagara river.....	180,000	176,273	177,614	798,141,000	806,435,000
"Toronto Power"—Niagara river.....	150,000	145,442	145,442	239,906,000	234,310,000
Chats Falls (Ontario half)—Ottawa river.	108,000	116,622	117,962	391,033,500	405,905,450
DeCew Falls—Welland canal.....	50,000	45,845	47,319	118,363,500	131,426,000
Steam Plant—Hamilton.....	24,000	.....	10,724	—3,429,600	—2,639,400
Georgian Bay system					
South Falls—South Muskoka river.....	5,600	5,764	5,563	24,818,640	22,916,040
Hanna Chute—South Muskoka river.....	1,600	1,743	1,743	7,708,800	7,082,400
Trethewey Falls—South Muskoka river..	2,300	2,145	2,145	10,915,200	10,548,000
Bala No. 1 and 2—Muskoka river.....	600	597	590	2,456,776	3,110,920
Big Chute—Severn river.....	5,800	5,657	5,791	18,686,400	23,573,040
Wasdells Falls—Severn river.....	1,200	1,206	1,092	3,338,420	4,517,400
Eugenia Falls—Beaver river.....	7,800	7,641	7,466	13,133,800	14,782,000
Hanover—Saugeen river.....	400	435	422	548,304	450,720
Walkerton—Saugeen river.....	500	489	483	1,955,200	2,116,200
Southampton—Saugeen river.....	300	0	0	0	0
Eastern Ontario system					
Sidney—Dam No. 2—Trent river.....	4,500	4,960	5,228	19,205,100	19,996,500
Frankford—Dam No. 5—Trent river....	3,500	3,820	3,887	15,724,850	15,896,450
Sills Island—Dam No. 6—Trent river....	2,100	.....	2,145	.....	452,000
Meyersburg—Dam No. 8—Trent river....	7,000	8,043	8,150	34,628,590	37,292,910
Hague's Reach—Dam No. 9—Trent river..	4,500	4,960	4,826	20,543,260	23,177,190
Ranney Falls—Dam No. 10—Trent river..	10,500	11,528	10,992	49,349,880	48,558,300
Seymour—Dam No. 11—Trent river.....	4,200	4,558	4,290	17,628,480	20,025,600
Heely Falls—Dam No. 14—Trent river....	15,300	16,086	16,086	55,215,580	59,560,740
Auburn—Dam No. 18—Otonabee river....	2,400	2,547	2,654	10,792,840	11,092,920
Douro—Lock No. 24—Otonabee river....	900	.....	1,072	.....	1,017,000
Lakefield—Otonabee river.....	2,300	.....	2,413	.....	8,622,910
Young's Point—Otonabee river.....	500	.....	576	.....	416,950
Fenelon Falls—Dam 30—Sturgeon river..	1,000	1,046	938	2,598,850	2,506,550
High Falls—Mississippi river.....	3,000	3,251	3,204	10,910,520	12,526,320
Carleton Place—Mississippi river.....	400	536	389	336,488	11,864
Calabogie—Madawaska river.....	5,400	5,496	6,099	18,659,370	20,572,830
Galetta—Mississippi river.....	1,100	1,193	1,233	736,054	2,640,000
Thunder Bay system					
Cameron Falls—Nipigon river.....	73,500	75,067	79,088	348,615,000	404,303,000
Alexander—Nipigon river.....	50,000	52,413	53,217	258,036,000	307,305,600
Northern Ontario properties					
Nipissing district					
Nipissing—South river.....	2,100	2,198	2,252	6,770,000	7,329,880
Bingham Chute—South river.....	1,200	1,330	1,330	3,597,440	3,636,480
Elliott Chute—South river.....	1,700	1,964	1,930	3,036,400	3,276,000
Sudbury district					
Coniston—Wanapitei river.....	5,900	5,764	5,764	25,800,864	25,193,990
McVittie—Wanapitei river.....	3,100	3,217	3,217	14,074,752	19,289,346
Stinson—Wanapitei river.....	7,500	7,239	7,641	21,686,304	24,768,404
Crystal Falls—Sturgeon river.....	†	.....	2,413	.....	151,800
Patricia district					
Ear Falls—English river.....	9,000	4,182	5,013	19,060,600	22,504,740
Abitibi district					
Abitibi Canyon—Abitibi river.....	180,000	146,783	161,796	604,215,880	761,051,900
St. Joseph district					
Rat Rapids—Albany river.....	3,000	1,702	2,969	7,287,720	12,360,060
Total generated.....	1,443,700	*	*	5,832,382,762	6,237,058,004

*Because the peak loads on the various generating plants and purchased power sources usually occur at different times, the sum of the individual peak loads would not represent the sum of the peak loads on the systems. These, in the case of each system, must relate to the maximum load occurring at any one time. Consequently, the column headed "Peak load" is not totalled.

†Crystal Falls plant was acquired in August, 1937, but capacity not regarded as available up to October 31, 1937, due to rehabilitation of the plant.

AND PURCHASED—ALL SYSTEMS

POWER PURCHASED

Power source	Contract amount horsepower Oct. 31, 1937	Total purchased	
		1935-36 kilowatt-hours	1936-37 kilowatt-hours
Canadian Niagara Power Co.....	20,000	108,304,000	124,114,800
Gatineau Power Co.—25-cycle.....	140,000	644,862,800	629,556,200
Ottawa Valley Power Co.....	108,000	0	284,699,350
MacLaren-Quebec Power Co.....	40,000	146,177,000	183,301,000
Welland Ship Canal*.....	.....	0	71,000
Campbellford Water & Light Commission.....	800	562,300	952,800
Fenelon Falls Light, Heat & Power Commission*.....	.....	9,600	6,800
M. F. Beach Estate.....	500	1,338,800	1,446,400
Rideau Power Co.....	487	2,903,000	3,051,600
Ottawa & Hull Power & Mfg. Co.....	20,000	62,256,600	63,352,800
Gatineau Power Co.—60-cycle.....	42,000	189,310,000	190,355,500
Orillia Water, Light & Power Commission†.....	.....	2,427,970	197,200
Manitoulin Pulp Co.....	150	280,200	333,600
Abitibi Power & Paper Co.....	538	3,141,781	972,722
Kaministiquia Power Co.‡.....	.....	2,621,640	31,104,480
Total purchased.....	372,475	1,164,195,691	1,513,516,252

Power purchased, contract amount, 1937.....	372,475	horsepower
Maximum normal plant capacity, 1937.....	1,443,700	"
Total available capacity generated and purchased, 1937..	1,816,175	"
Total available capacity generated and purchased, 1936..	1,648,037	"
Difference (increase).....	168,138	"
Total energy purchased, 1937.....	1,513,516,252	kilowatt-hours
Total energy generated, 1937.....	6,237,058,004	" "
Total energy generated and purchased, 1937.....	7,750,574,256	" "
Total energy generated and purchased, 1936.....	6,996,578,453	" "
Difference (increase).....	753,995,803	" "

*Emergency use.

†Reciprocal arrangement for surplus power.

‡Purchased on kilowatt-hour basis.

CAUTION: The figures for "Maximum normal plant capacity" reflect the capacity of the various plants under the most favourable operating conditions which can reasonably be considered as normal, taking into consideration turbine capacity as well as generator capacity, and also the net operating head and available water supply.

Owing, among other things, to changes in generating equipment due to wear and tear or the replacement of parts, also to changes in limitations governing water levels and effective net heads, the maximum normal plant capacity is not a fixed quantity but is one which must be revised from time to time.

It is particularly important to bear in mind that the column headed "Maximum normal plant capacity" cannot be taken as an indication of the dependable capacity of the various plants: in some cases, it is, but in many cases it is not. Chief among the factors which govern the maximum dependable capacity of a hydraulic power plant and which are not reflected in column headed "Maximum normal plant capacity" are abnormal variations in water supply and operating limitations encountered when plants are so situated on a given stream as to be affected by one another.

Load Conditions

The following summary of load conditions distinguishes between primary load supplied for general purposes and secondary load which is supplied only as and when available.

The primary load on all systems, that is the sum of the system peak loads, increased 151,000 horsepower over the previous year's peak, an increase of 11.4 per cent. The Commission's primary peak load during the year amounted to 1,468,266 horsepower, which is the highest primary load ever carried on the combined systems.

The increase in the average primary load was even greater than the increase in peak load, amounting to 13.3 per cent. This gain was not uniform on all systems. In southern Ontario, the combined Niagara, Eastern Ontario and Georgian Bay systems showed a gain of 9.9 per cent. The gains in the northern part of the province were greater, the Thunder Bay system showing an increase of 27.1 per cent, and the Northern Ontario districts an increase of 38.8 per cent.

The total load of all systems, including primary and secondary power, amounted to 7,750,574,256 kilowatt-hours, and is the largest total load attained during any fiscal year, being 10.8 per cent in excess of last year's load. The total peak load was 1,694,406 horsepower, an increase of 4.7 per cent over the previous load. It will be noted that the increase in the total peak load is much less than the increase in the primary peak load.

Details regarding the load on each system, month by month, are given in the load graphs included in this section of the Report. These graphs show that, allowing for the usual seasonal variations, there has been a steady upward trend in the load on all systems since 1933, and this upward trend still continued at the end of the fiscal year.

FORESTRY DIVISION

The Forestry division continued its regular transmission line clearing operations to protect the Commission's lines, equipment and service from tree interference. Reforestation was continued on non-revenue producing lands in the Niagara, Georgian Bay and Eastern Ontario systems, and some work was carried out on generating and transformer station grounds for the preservation of trees and shrubs.

At the beginning of the year the duties of the Forestry division were extended to include line clearing operations for all rural lines located on or along the King's highways. According to information obtained by actual survey, this work involves treatment of 96,000 trees spread over 1,576 miles of existing rural lines, to which may be added the trees along new line construction projects.

A further description of the work performed, together with details pertaining to cost, will be found in the succeeding paragraphs.

Transmission Line Clearing Operations

The year's operations involved treatment of 57,370 trees and 70 pole spans of underbrush spread over 2,548 miles of power transmission and tele-

phone line. The cost, including all expenditures for labour, material, expense and forestry overhead applicable to this work is shown in the table below:—

TRANSMISSION LINE CLEARING OPERATIONS

Description of work	Miles of line cleared	Volume of work performed	Total cost	Average cost
Underbrushing.....	.....	70 pole spans	\$ 476	\$ c. 6.80 per span
Tree removals.....	.....	2,011 trees	5,711	2.84 per tree
Line clearance, pruning and cabling..	2,548	55,359 trees	52,528	0.95 per tree



CONTRASTING VIEWS OF TYPICAL TREES FOUND ALONG THE HIGHWAYS

Beech tree destroyed by fire and fungi. Protection of human life and public property necessitates removal.

Sugar maple tree in all its grandeur. An inspiration to all who behold its beauty, health and symmetry.

Comparing this year's report on line clearing operations with that of last year shows a substantial increase in the miles of line cleared and number of trees treated, and a small decrease in the average cost per tree. The amount of underbrushing and the number of tree removals were greatly reduced.

Rural Line Clearing Operations

Initial operations for rural power districts during the year comprised the treatment of 28,609 trees and removal of 3 pole spans of underbrush to provide clearance for 599 miles of line. The cost, including all charges for labour,

material, expense and forestry overhead applicable to this work is shown in the table below:—

RURAL LINE CLEARING OPERATIONS

Description of work	Miles of line cleared	Volume of work performed	Total cost	Average cost
Underbrushing.....	.....	3 pole spans	\$ 17	\$ c. 5.59 per span
Tree removals.....	.....	861 trees	2,333	2.71 per tree
Line clearance, pruning and cabling..	599	27,748 trees	24,821	0.89 per tree

During the progress of the work, rural linemen were given a preliminary lecture and instructions in the approved safety rules and scientific methods of pruning trees for line clearance. This was supplemented by practical training under the supervision and direction of foresters. The training program generally extends over a period of three weeks, comprising 144 hours. A total of thirty-six rural linemen reported to the Forestry foreman for training when work was being performed in their respective districts. Seventeen of these men spent the required time to complete training, but nineteen were called away for emergency line work and have received only partial training.

RURAL LINEMEN TRAINED FOR FORESTRY WORK

System	Rural power districts	Employees trained	
		Complete	Partial
Niagara.....	5	10	15
Georgian Bay.....	1	3	4
Eastern Ontario.....	1	4	..

Records of costs shown in the preceding tables under transmission and rural line clearing operations include pruning to secure adequate clearance, a reasonable amount of shaping to improve the appearance and restore the natural beauty of the trees, cabling trees with structurally weak or splitting crotches, and a systematic diagnosis of all trees along the lines to discover and remove those that are diseased and a menace to life, service and property.

New Construction Line Clearing Operations

Scientific line clearing operations were performed to obtain clearance for approximately 92 miles of new transmission and rural line construction. The work involved pruning of 3,400 trees, removal of 12 spans of underbrush and 332 diseased and dangerous trees, at a total cost of \$5,641, an average cost of \$1.51 per tree.

Maintenance of Trees and Shrubs on Station Grounds

Various types of work were performed. Trees and shrubs were planted in accordance with landscape plans to improve the properties. Existing trees and shrubs were pruned, fertilized and sprayed to control scale and leaf-eating insects. Structurally weak trees were cabled to prevent splitting. The stations

at which work was done were: Niagara, Strachan Avenue, Preston, Kitchener, Cooksville, Kent, Ontario Power, Queenston, Bridgman-Davenport, DeCew and Leaside on the Niagara system, and Cornwall on the Eastern Ontario system.

The entire cost of this work including all expenditures for labour, material, expense and forestry overhead amounted to approximately \$4,516.

Reforestation

Reforestation operations during the year involved planting of approximately 114,000 coniferous and deciduous trees on vacant property owned by the Commission, at a total cost of \$2,664. Trees were planted on the banks of the Chippawa-Queenston canal and on adjacent properties in the Niagara system, on Pheasant island, and other property adjoining Eugenia generating station in the Georgian Bay system, and on an area in the vicinity of Sidney generating station at Trenton in the Eastern Ontario system. Details pertaining to cost, number of trees and species planted are given below:

TREE PLANTING ON COMMISSION PROPERTIES

Species	Queenston-Chippawa canal		Pheasant island and Eugenia		Sidney generating station	
	Trees	Cost	Trees	Cost	Trees	Cost
Spruce.....	1,412					
Cedar.....	787					
Pine.....	151					
Aust. Pine.....	10					
White Pine.....	48					
Larch.....	3					
Scotch Pine.....	69					
Red Maple.....			1,250			
Sugar Maple.....			2,600			
White Ash.....			3,500		4,500	
B. Locust.....			200			
B. Walnut.....			200			
Red Pine.....			16,000		28,300	
Jack Pine.....			10,750		15,800	
White Cedar.....			6,000		20,800	
Red Oak.....					1,500	
Totals.....	2,400	\$1,276	40,500	\$666	70,900	\$722

Work for Municipal Hydro Systems

The Forestry division was employed by an increasing number of municipal Hydro systems to perform line clearing operations for the protection of their local distribution lines. There has been manifested a growing appreciation of the work performed by the Commission's Forestry division in the increased demand for the service, as shown by the larger number of municipalities served during the year.

Surveys and preliminary diagnosis of trees affecting local distribution lines owned by the Commission and municipal Hydro systems were made in

19 different municipalities. Line clearing operations were performed for Beamsville, Burford, Burlington, Comber, Hamilton, London Twp., New Toronto and Port Credit on the Niagara system; Midland on the Georgian Bay system; Arnprior, Braeside, Napanee, Oshawa, Peterboro, Picton and Renfrew on the Eastern Ontario system.

The work comprised treatment of 6,034 trees spread over approximately 88 miles of distribution line. The cost amounted to \$6,104, an average cost of \$1.01 per tree. Details pertaining to the expenditures and work done on each of the three systems are shown in the following table:

FORESTRY WORK FOR HYDRO MUNICIPALITIES

System	Number of municipalities	Number of trees				Cost	
		Cabled	Removed	Pruned	Total	Total	Average per tree
Niagara.....	10	13	7	1,251	1,258	\$ 1,521	\$ c. 1.21
Georgian Bay.....	2	1	13	606	619	437	.70
Eastern Ontario.....	7	9	35	4,122	4,157	4,146	1.00
Totals.....	19	23	55	5,979	6,034	6,140	1.01

An expression of appreciation is due the Ontario Forestry Branch and officials of the Department of Highways, also to municipal road authorities for the spirit of friendly co-operation shown during past years.

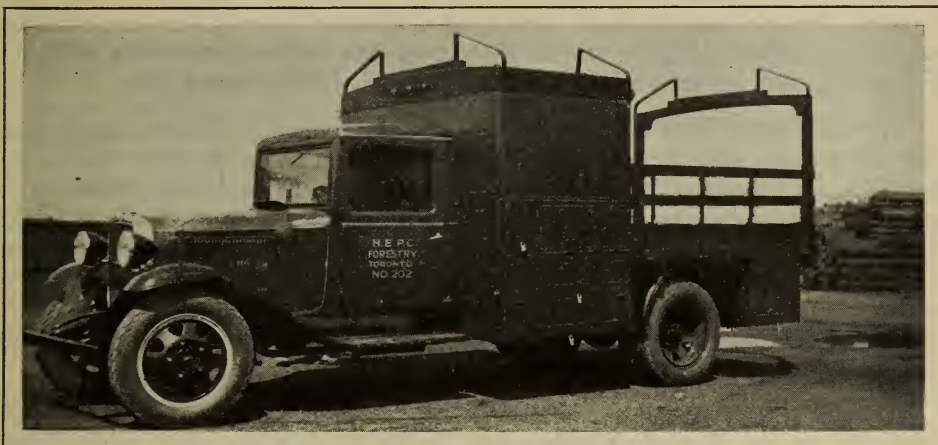
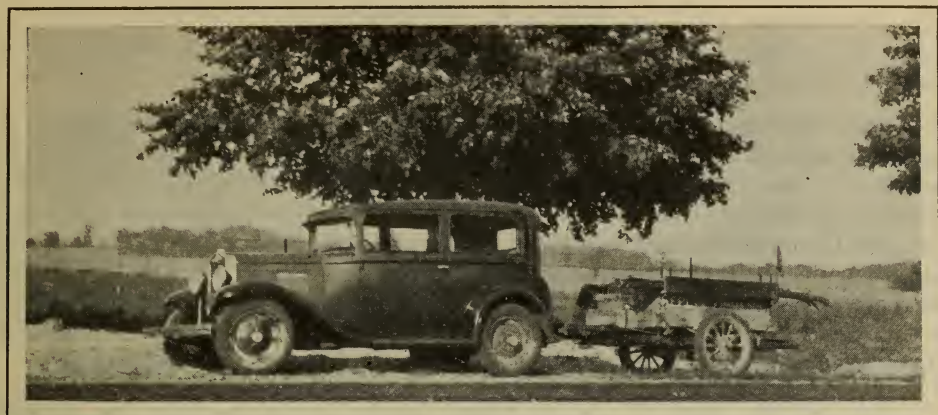
Transportation Equipment

The progress of the Forestry work is exemplified by the accompanying three illustrations showing the transportation equipment utilized on line clearing operations.

During the period of organizing and training the Forestry staff, the Commission supplied trailers and other equipment at a minimum capital investment. The foresters were transported and the trailers hauled by privately owned cars, and local trucks were hired to dispose of brush.

When it was demonstrated that scientific treatment of trees for line clearance was economical and most satisfactory, trucks were purchased to reduce transportation costs. While the capital investment was increased by the purchase of trucks, operating costs were reduced by approximately fifty per cent.

The original design of trucks had many advantages over the trailers, but marked improvements have been made in those of more recent design at very little increase in capital investment and with still further reductions in the cost of operation. The new trucks conform with present-day styles, are lower in height to facilitate storage in garages, and provide the foresters with seating inside an enclosed cab to protect them against exposure to severe and inclement weather.



TRANSPORTATION OF FORESTRY WORKERS

- 1—Car with equipment on trailer as used up to 1931.
- 2—Truck equipped with specially designed body for transportation of workers and tools and disposal of brush.
- 3—Improved combination unit for same purposes but having a weather-proof compartment for workers in front body.

NIAGARA SYSTEM

Operation

The Commission's generating plants on the Niagara river were operated to obtain the maximum amount of energy from the water available. During the month of March, 1937, ice condition on the Niagara river resulted in almost a complete shutdown of the Canadian Niagara Power Company with the result that the Commission was requested to supply some power for the use of the Canadian customers of this company. During this period the ice jam in the lower river raised the tail race at the Ontario Power and Queenston plants so that their outputs were reduced for a period of approximately 24 hours by 10,000 and 25,000 horsepower respectively.

Full use was made of the purchased power available under the various contracts with outside companies. In order to meet increasing primary load demands, the contract demand under the Gatineau Power Company contract was increased from 100,000 to 140,000 horsepower in two increments of 20,000 horsepower each taken on November 16 and 30, 1936, respectively.

At the Chats Falls station on the Ottawa river, the Commission's four generating units were available for operation as and when required during the year. The four units of the Ottawa Valley Power Company were returned to service in February after the signing of a new power contract. Since then the output of the entire plant, subject only to stream flow conditions, has been available to the Niagara system. The 45,000-kv-a, 25-cycle to 60-cycle, frequency-changer set was available for the transfer of power between the Niagara 25-cycle system and the Eastern Ontario 60-cycle system, except three short outages for maintenance work.

The normal stream flow at Chats Falls during the early winter months was slightly in excess of plant requirements, while during the latter part of the winter the water from Quinze and Temiskaming storage reservoirs was used to augment the natural flow. The minimum river flow of approximately 18,390 c.f.s. occurred on September 10, while the maximum of approximately 172,200 c.f.s. occurred on May 8, during the spring run-off.

A new 110,000-volt, 60-cycle circuit from Chats Falls plant to the Eastern Ontario system at Trenton was placed in service on July 21 at 44,000 volts, and on October 11 voltage was raised to 110,000 volts. This provides a direct line for delivery of power from the frequency-changer set to the Eastern 60-cycle system, and 1,652,000 kw-hrs. were supplied to the Eastern system over this circuit up to the end of the fiscal year.

The steam power station at Hamilton operated as a standby reserve on the 66-2/3-cycle Dominion Power system during the year. It was called into service on 72 days to take care of peak deficiencies in the output of the DeCew Falls plant due to equipment being out of service for necessary maintenance work. The maximum peak was about 10,700 horsepower. One generator, as in the past few years, was used as a synchronous condenser for voltage regulation, floating on the Hamilton section of the system, while the other generator was available for power purposes. The boiler plant was used for the generation of steam for commercial purposes.

The 9,000-kv-a frequency-changer set at Niagara Falls, supplying power to the Dominion Power system, operated as a base load unit during the year, the power for this set being supplied from the Toronto Power generating station.

No special difficulties were experienced in the operation of the 220,000-volt transmission lines between the Ottawa river and Toronto (Leaside station). These lines deliver power from the east to the Niagara system, and during the year were operated in parallel through transformers with one section of the 110,000-volt Niagara system lines. There were no complete interruptions to service on the 220,000-volt lines, although there were a number of individual circuit outages resulting from lightning, which, however, caused no damage to the lines.

The 110,000-volt transmission circuits were operated during the year as two independent groups, one group being in parallel through transformers with the 220,000-volt circuits. There were no total interruptions to service on either group.

The 110,000-volt station at Thorold was placed in service on November 8, 1936. This station contains two 15,000-kv-a transformer banks with associated equipment. On August 8, an additional bank of three 5,000-kv-a transformers was added.

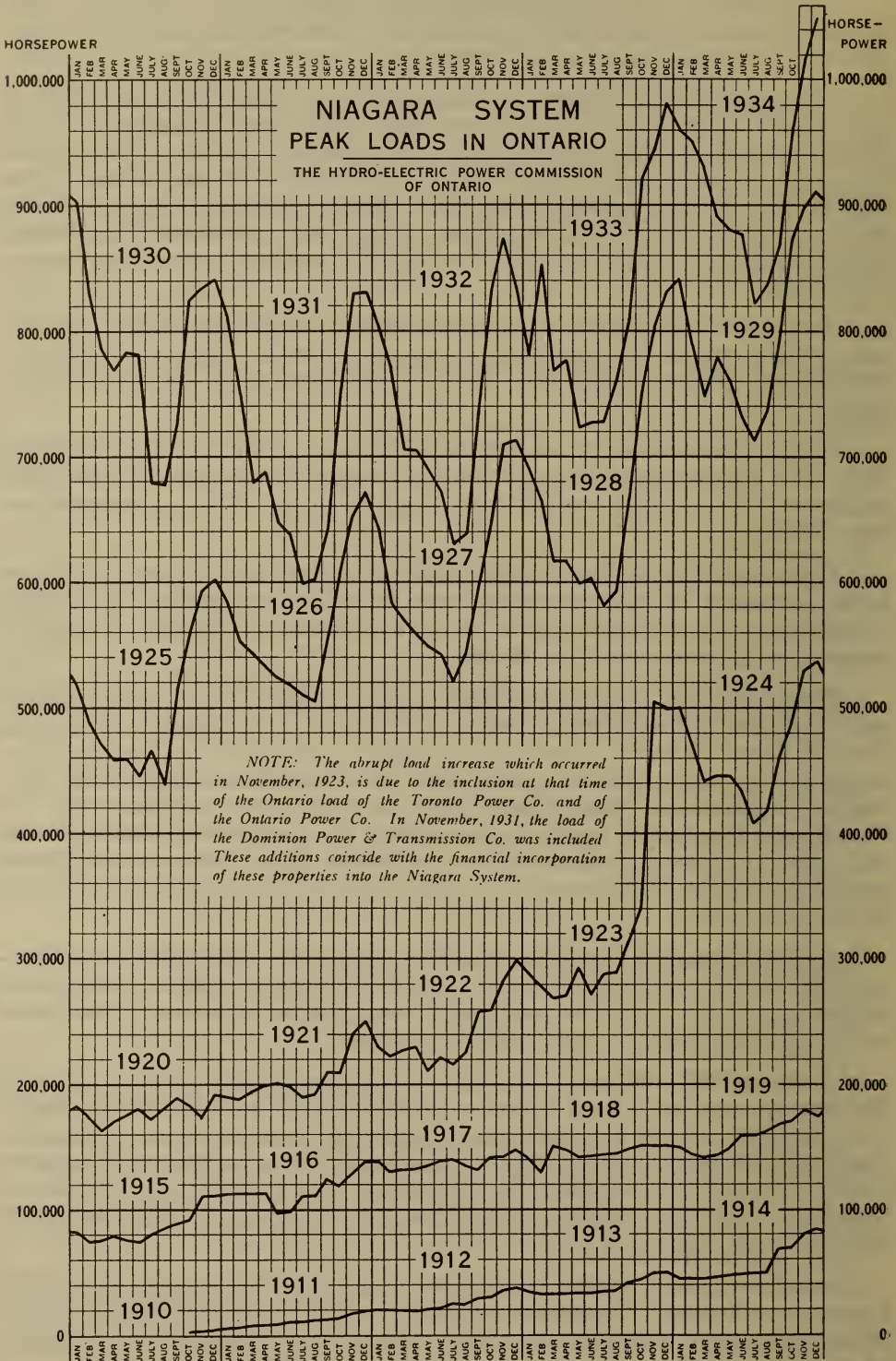
Changing Thorold from 60,000 volts to 110,000 volts released two transformer banks of 7,200-kv-a capacity, one of which was installed at Niagara transformer station, and the other is to be installed at Welland to meet increasing load demands in that district.

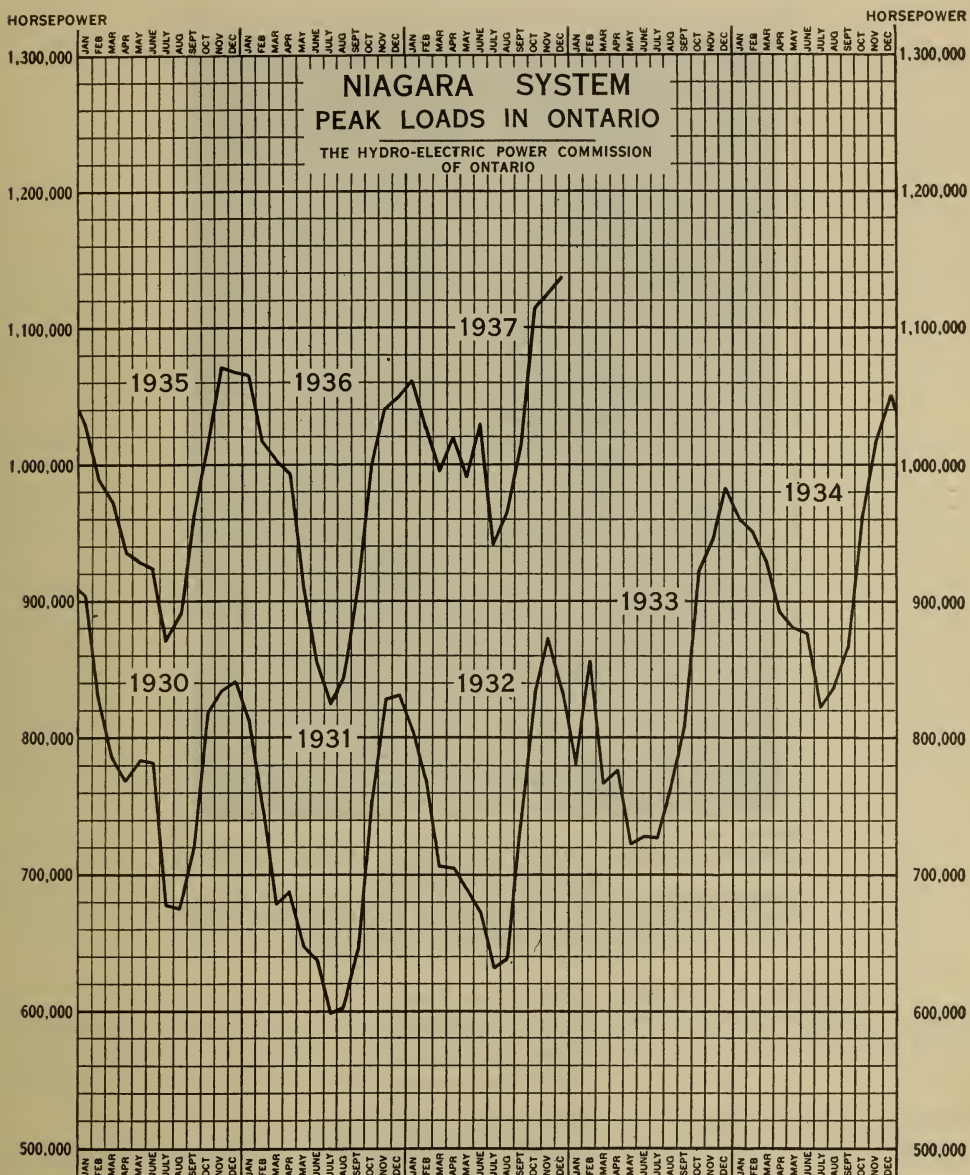
The transfer last year of the Welland district to 46,000 volts, along with this year's transfer of the Thorold area to 110,000 volts and changes made in the Ontario Power, Toronto Power and Niagara transformer stations, have resulted in the elimination of many miles of transmission circuits with their auxiliary equipment. These changes have been made in accordance with the Commission's policy of gradually converting the purchased Ontario Power and Toronto Power properties from individual units into a consolidated generating system for the supply of power to the Niagara system in the most economical manner.

On the Dominion Power transmission lines there were three total interruptions to the 44,000-volt circuits, totalling 27 minutes, two of which were caused by failures of station equipment during lightning storms. There were no total interruptions on the 22,000-volt system.

A new 26,000-volt line from Brant transformer station to the L. E. & N. Railway junction was placed in service during the year and 13,000-volt circuits from Norwich junction to Tillsonburg, Aylmer city limits to Aylmer, Drumquin junction to Hornby, Toronto Power transformer station to Norton Company, Thorold transformer station to St. Catharines and Clark Street junction to Merritton. A group of 26,000-volt lines, between Essex transformer station and Windsor, was transferred to the Windsor Public Utilities.

New low-tension distributing stations were placed in service at Ryckman's Corners and Hornby. Transformer capacity was increased at Sharon, Woodstock Rural, Ayr, Delaware, Rondeau, Beamsville, Dashwood, St. George, St. Williams and Lucan to meet increasing load demands.





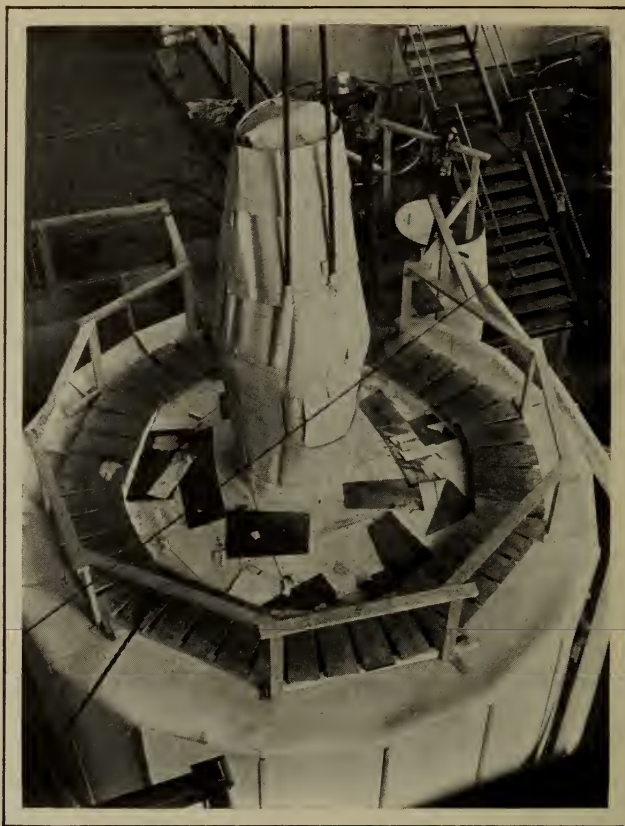
NOTE: This diagram is a continuation of that on facing page

Maintenance

Queenston Station

All equipment was available for service as and when required, with the exception of number 10 unit which was out of service from February 3 to August 22, due to a shaft failure at the thrust collar.

Generators and turbines were removed from service during the summer months for inspection and necessary maintenance work, as follows:



REMOVAL OF SHAFT FROM ROTOR OF No. 10 UNIT IN QUEENSTON GENERATING STATION

Looking down on top of housing. The shaft (30 ft. 3 in. long by $32\frac{3}{4}$ in. diameter) when separated was lowered into hoisting hatchway, moved to one side and raised again to erection room

Number 1	unit	from	May 17	to	June 1,
" 2	"	"	June 17	to	July 8,
" 3	"	"	July 8	to	July 22,
" 4	"	"	July 22	to	August 13,
" 5	"	"	Sept. 20	to	Oct. 27,
" 6	"	"	August 23	to	Sept. 3,
" 7	"	"	Sept. 7	to	Sept. 19,
" 8	"	"	June 1	to	June 17,
" 9	"	"	May 3	to	May 16,
" 10	"	"	Feb. 3	(date of shaft failure)	to August 22,

Service Unit "A" from April 28 to July 2.

All the above-mentioned machines and their allied equipment, with the exception of units 5, 10 and "A" service, were given a complete check-up *in situ* and all necessary repairs and adjustments made for a further year's operation. This work included inspection of draft tube, turbine runner and runner seals, gates and gate stem packing, minor repairs by welding, renewal of lignum vitae blocking in turbine guide bearings and refitting of shaft journals



**REMOVAL OF SHAFT FROM ROTOR OF No. 10 UNIT IN QUEENSTON
GENERATING STATION**

View shows rotor and shaft (combined weight 307 tons) supported on steel cradle over hoisting hatchway and enclosed in heat insulating housing. The tank in foreground contained alcohol and carbon ice refrigerant. Instrument bench at left. (See text for description.)

if necessary, dismantling of Johnson valve controls and replacement of parts where required; inspection of brake rings, brakes, oil piping and cleaning of all ducts and generator fan.

The generator and exciters were cleaned, field coils were checked, armature coils were inspected and all loose wedges, bracing and cording were tightened.

Along with the foregoing work on the main units, all auxiliary equipment, including transformers, reactors, regulators, oil circuit-breakers, busses, controllers, meters, relays and wiring were carefully checked and repairs or replacements made where necessary.

Number 5 unit was completely dismantled to permit the installation of a new stainless steel erecting ring in the top of the upper draft tube section of the turbine, replacing a brass ring which disappeared during the winter. Sixty gates and gate stem bushings were replaced due to wear, and a new set of improved type gate links was installed. During this period all parts and allied equipment were inspected, repairs and replacements being made where necessary.

The complete dismantling of number 10 unit was necessitated by the failure of the generator shaft, due to fatigue in the steel, immediately above the circular key holding the thrust bearing. Investigation of an increased eccentricity in the rotation of the exciter armature, which was located immediately above the fracture, led to the discovery of this condition. The total dead weight of the rotating parts carried by the thrust bearing is approximately 350 tons.

To carry out the repairs it was necessary to remove the shaft, weighing approximately 39 tons, from the rotor, in order to permit machining and fitting of a new key and thrust collar. To dismantle the generator rotor would have been a long and expensive operation and this was avoided by an engineering feat which, considering the weight and bulk of the metal parts involved, was somewhat unusual.

The field spider and shaft having been assembled originally with a shrink or press fit it was estimated that a temperature difference of about 55 degrees Centigrade (131 degrees Fahrenheit) between shaft and field spider would be required to produce sufficient shrinkage to release the shaft. To accomplish this the temperature of the entire rotor was raised slowly over a period of five days to a temperature of 84 degrees Centigrade on the laminated ring, 50 degrees Centigrade on the hub and 28 degrees Centigrade on the shaft, the latter being cooled by cold water circulating through the eight-inch bore. This produced a temperature difference of 22 degrees Centigrade which was not sufficient. The water was replaced by alcohol cooled to 75 degrees below zero, Centigrade, by "dry ice" (solidified carbon dioxide) which in one hour produced an additional temperature difference of 23 degrees Centigrade, a total of 45 degrees Centigrade, which allowed the shaft to swing free, and it was lowered out of the rotor.

The shaft was shipped to the manufacturer for repairs and on its return was replaced in the rotor by the same method with the exception that iced water was used for cooling instead of "dry ice", since, due to its not being in contact with the rotor, the entire mass of the shaft could be reduced to a uniform temperature.

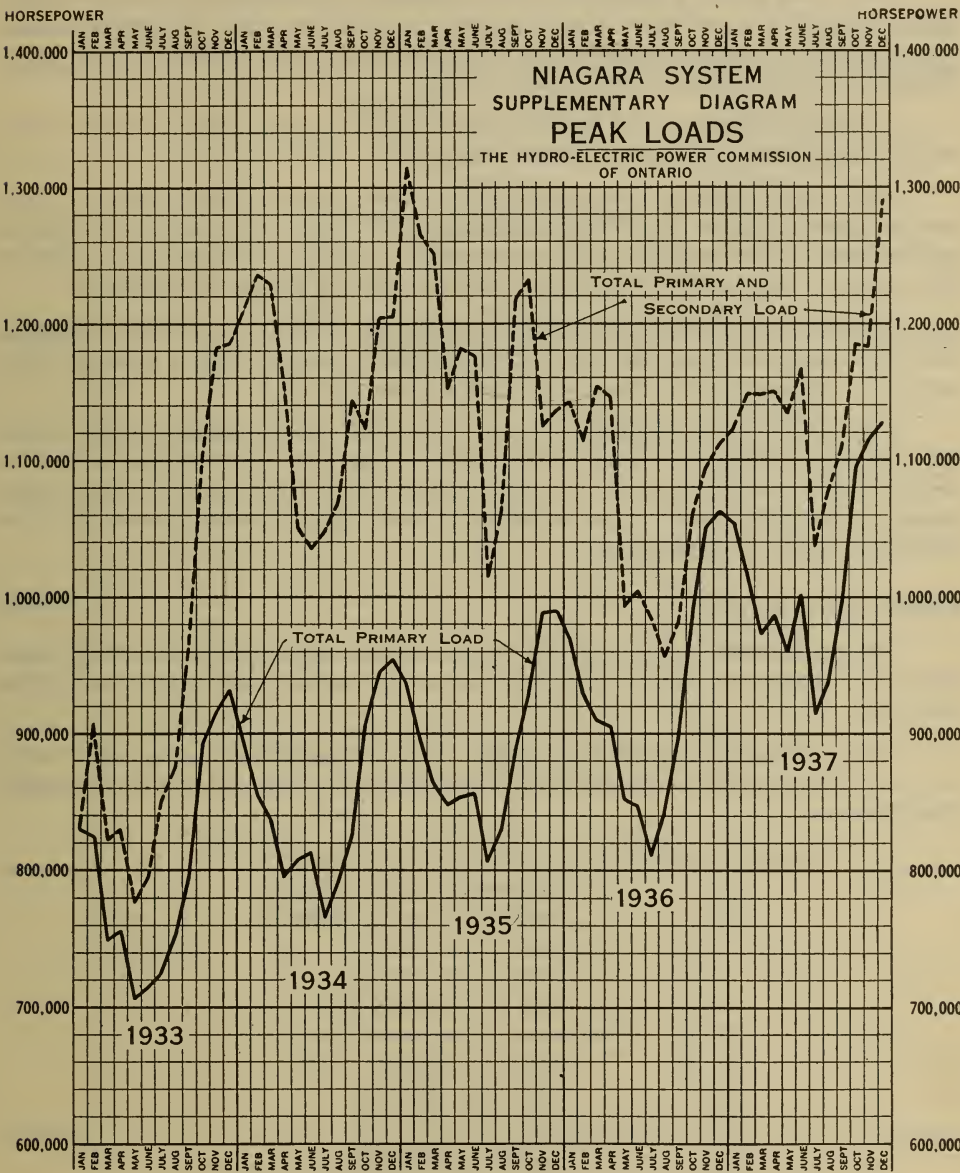
During all of these operations the entire rotor was completely housed in order to conserve heat and the shaft was insulated with Kapok to eliminate condensation and prevent entrance of heat.

The Commission's Laboratory also developed a method of measuring the loading on each of the six jack screws in the thrust bearing, whereby the weight carried is known to be distributed uniformly to each bearing shoe.

While this unit was out of service a turbine bearing of new design was installed, all parts and allied equipment were inspected and repairs or replacements made where necessary.

The "A" service generating unit was dismantled for replacement of blocking in lignum vitae guide bearing, rebalancing of the brake wheel and a complete cleaning, inspection and repair or replacement of all allied equipment.

Steel flood gates have been constructed and are to be installed in the east wall of the power house building at elevation 264, replacing the original wooden gates.



SUPPLEMENTARY DIAGRAM— NIAGARA SYSTEM PEAK LOADS

Notes

TOTAL PRIMARY LOAD: Primary power is power which the Commission is under contractual obligation to supply and for which it is obligated to hold in reserve adequate capacity. The graph above includes only the actual delivery of such power, and does not include the amount by which the primary power contracts exceed actual deliveries.

TOTAL PRIMARY AND SECONDARY LOAD: Includes, in addition to the primary load, at-will power which the Commission is under no obligation to hold in reserve. Such power has been sold in Ontario and exported to Quebec and the United States. The above graph includes all secondary power and therefore differs from the graphs on pages 18 and 19 which show only the load in Canada

Two 1,500 gallon pumps have been installed to discharge the waste cooling water from the transformer water tunnel, in case the water in the river rises to an elevation which requires the new winch-operated steel bulkhead to be installed at the discharge end of the tunnel.

A new oil filter, of the blotter press type, has been built to replace the centrifugal filters used on the thrust bearing oil.

Ten new indicating frequency meters were installed on main unit and service panels. These are of the resonant circuit type and replace the original synchronous motor meters. Also, two graphic frequency meters were added to the control room, one for the Green and one for the Yellow sub-systems.

Considerable building maintenance has been carried on such as repairs to tile roofs, steel work and the painting of the main entrance hall, a portion of the screen house proper and No. 5 floor of the power house.

The work of rough surfacing the cliff face with stone masonry is well under way and will effectively stop weathering of the cliff, reduce the hazard of falling rock to a minimum, and make a presentable appearance. Repairs were made to the road bed of the railway connecting the power house and the receiving depot at Queenston.

Ontario Power Station

The equipment in the Ontario Power station, situated on the river bank below the Horseshoe Falls at Niagara, gave very satisfactory operation during the year.

The undernoted generating units, with their associated equipment, were removed from service during the summer months for inspection and necessary maintenance:

Number	4	unit from	October 28 to October 31,
"	5	" "	October 14 to October 18,
"	6	" "	October 21 to October 24,
"	7	" "	June 27 to July 3,
"	8	" "	June 20 to June 25,
"	9	" "	June 6 to June 12,
"	10	" "	June 13 to June 18,
"	11	" "	July 4 to July 9,
"	12	" "	July 12 to July 16,
"	13	" "	July 19 to July 24,
"	14	" "	July 26 to July 29,
"	15	" "	August 3 to August 6.

The inspection of units 1, 2 and 3 was delayed until after October 31, due to the necessity of removing number 7 generator from service to install a complete new armature winding following a failure in the coils on August 5. This latter machine was returned to service on October 1.

During the above periods all machines were carefully inspected, generator windings were cleaned and varnished, eroded sections in turbines and draft tubes were built up by electric welding, gates and bushings were adjusted, and bearings cleaned, inspected and the oil filtered. The governors and relief valves

were taken apart, inspected and any necessary repairs and adjustments made; all associated equipment, including oil circuit-breakers, disconnecting switches, cables, meters, relays and control wiring, was examined and repairs made where necessary.

The cleaning of the vertical sections of the penstocks to the various machines and the application of a rust preventative, reported in progress last year, was completed.

The work of connecting the 12,000-volt generator cables directly to the Niagara transformer station was completed during the year. This facilitates delivery of power to the 110,000-volt Niagara system and eliminates the hazard of intermediate switching equipment, along with its attendant maintenance expense.

Six obsolete-type oil circuit-breakers, on generators one to six, were replaced by more modern breakers released from the transformer station; changes in the system of power supply to the various exciter motor-generator sets were in progress at the end of the year.

The grounds around the intake works, transformer station and general offices have been rearranged, graded and planted with shrubbery.

All necessary maintenance was carried out on buildings, and service equipment.

Toronto Power Station

The equipment of the Toronto Power station was available for all power demands required of it during the year.

All generators and turbines were inspected; generators numbers 5, 8 and 11 were cleaned and varnished; number 8 turbine was completely dismantled, the two runners and distributors built up by electric welding where erosion had occurred, and all bearings relined and refitted.

On April 19 the generator winding of number 2 unit failed. The unit was removed from service on May 16, and a new armature winding of modern design installed in the generator, replacing the original winding after twenty-three years' service. The unit was returned to service August 6. The new winding was one of two complete new-type windings placed in stock the early part of the year.

Number 1 service water pump and the governor pumps on units 7, 9 and 10 were given a complete overhaul.

The guide arches, brake beams, railings, stairways, gallery and bearing cases of units 8, 9, 10 and 11 were cleaned and painted. Head gates numbers 2, 3, 5 and 8 were cleaned and given an application of a rust preventative material.

The interior of the 330,000-gallon stand pipe at the transformer station was cleaned by sand blasting and given a spray coat of zinc amounting to 3.5 ounces per square foot, the first extensive use of this type of protection by the Commission.

All minor equipment, buildings and grounds were maintained in good condition.

Chats Falls Station

Routine inspection and all necessary maintenance were carried out during the year on the four Commission machines. Following the return to service of the four Ottawa Valley units on February 13 it was found necessary to readjust the lignum vitae guide bearings on units 6, 7 and 8; an unbalance in the rotor of number 7 machine was corrected and the lower generator and turbine guide bearings were re-aligned.

The headworks and dams were inspected. Some 575,000 pieces of pulpwood and pine logs were passed through the dam during the season. Bare sections on the earth dam were reseeded to alfalfa.

On April 13 the frequency-changer set was made unavailable for service for approximately two months for the purpose of re-cording the 25-cycle stator in order to give additional strength against mechanical stresses on short circuit. On September 15 a stator coil on the 60-cycle side of the frequency-changer set broke down. Satisfactory operation of the high-speed relays on this unit confined the damage to the immediate vicinity of the defective coil and the machine was repaired and returned to service in five days.

The 60-cycle transformer used to supply power to the Eastern Ontario system from the frequency-changer set was changed from 44,000 volts to 110,000-volt service on October 11. The unit was unavailable for five days while this change was being made.

The tile cable ducts along the breast wall of the dam, carrying part of the 13,000-volt cables, were removed and replaced with wood racks in order to eliminate corrosion of the lead sheaths from seepage water coming through the cement of the dam structure. It was necessary to do the major part of this work during early morning hours and over week-ends.

General maintenance work was carried out on railway sidings, roads, buildings, structures and grounds.

DeCew Falls Station

The DeCew Falls station, which is the main source of supply to the 66-2/3-cycle Dominion Power section of the Niagara system, gave satisfactory service during the year except for the failure in service of the main penstock valve on number 7 unit. This failure did not cause any damage to the plant as the water was successfully controlled; the valve was removed and replaced by a special cast steel section from stock, and the unit returned to service.

Number 4 unit was removed from service on August 3 for complete overhaul and installation of a new turbine runner to replace the original which was badly worn by erosion; new seal rings were installed, gate shafts were built up by welding with stainless steel and refitted with new bushings, the relief valve was completely overhauled and fitted with new seals, and the governor given a complete inspection, all worn parts being replaced. The generator was cleaned and coils revarnished. The unit was returned to service on October 31, with an increased output of 20 per cent, resulting from the replacement of the runner.

While this work was in progress the section of the screen house supplying number 4 unit was inspected, several steel beams were replaced and all steel work, including the gate, was cleaned and painted to protect it against rusting.

Mechanical and electrical maintenance was carried out as required in the plant. The roads, bridges and waterways between Allanburg and the screen house, comprising the headworks, were inspected, and repaired where found necessary; the water level in the headworks was operated approximately one foot higher to permit maximum storage of water and output, which required extra protection on the banks of the ponds to prevent erosion.

Hamilton Steam Plant

New front walls were built on four boilers and the stoker on number 5 was completely overhauled; the brick work on the two chimneys was repointed and the lightning rod protection brought up to modern requirements.

Number 1 turbine was dismantled, the blading and bearings were cleaned, and after re-assembly the rotor was rebalanced. All auxiliary equipment was inspected and overhauled.

All buildings and tracks have been properly maintained.

Transformation

At Leaside 220,000-volt transformer station number 1 25,000-kv-a synchronous condenser was completely dismantled for inspection and overhaul, the armature was cleaned and varnished, coils were re-wedged and stronger bracing with additional cording installed. It was also found necessary to re-align the stator and re-balance the rotor.

At London transformer station the 10,000-kv-a synchronous condenser was overhauled, the stator and rotor were cleaned and varnished, the coil wedges and all cording on the armature were replaced. All associated equipment was inspected and repaired where necessary.

In the 110,000-volt transformer stations all equipment gave very satisfactory service. There were no failures in service of high-voltage transformers during the past two years, largely as a result of an intensive inspection and maintenance schedule started several years ago. The use of a special testing outfit developed in the Commission's laboratory makes it possible to check and remove defective high-voltage bushings, preventing failures in ordinary service.

Thirty-two transformers were removed from service for inspection, the core bracing was tightened, core and coils cleaned, connections were checked and the oil filtered; these transformers included ten of 5,000-kv-a, three 3,000-kv-a, ten 2,500-kv-a, six 2,400-kv-a, and three 1,250-kv-a units. One set of lightning arresters was overhauled.

All equipment, including oil circuit-breakers, was inspected and repaired where necessary. Buildings and grounds were properly maintained.

Transmission

Approximately 1,190 acres of brush under and in the immediate vicinity of the 220,000-volt lines were cut, this being a material reduction on the extensive work of the past few years. Some 6½ miles of new patrol roads were constructed.

On the 110,000-volt transmission circuits, insulators on 425 miles of line were inspected and tested. The angle iron footings on 1,280 McGuigan-type towers were inspected and reinforced where necessary. On the Dominion Power transmission lines 16,050 insulators were inspected, 996 defective units were replaced, and 1,356 poles were straightened. Regular patrol and maintenance were carried out on all lines.

The operating telephone lines were regularly patrolled and maintained in good condition and some 16 miles were rebuilt.

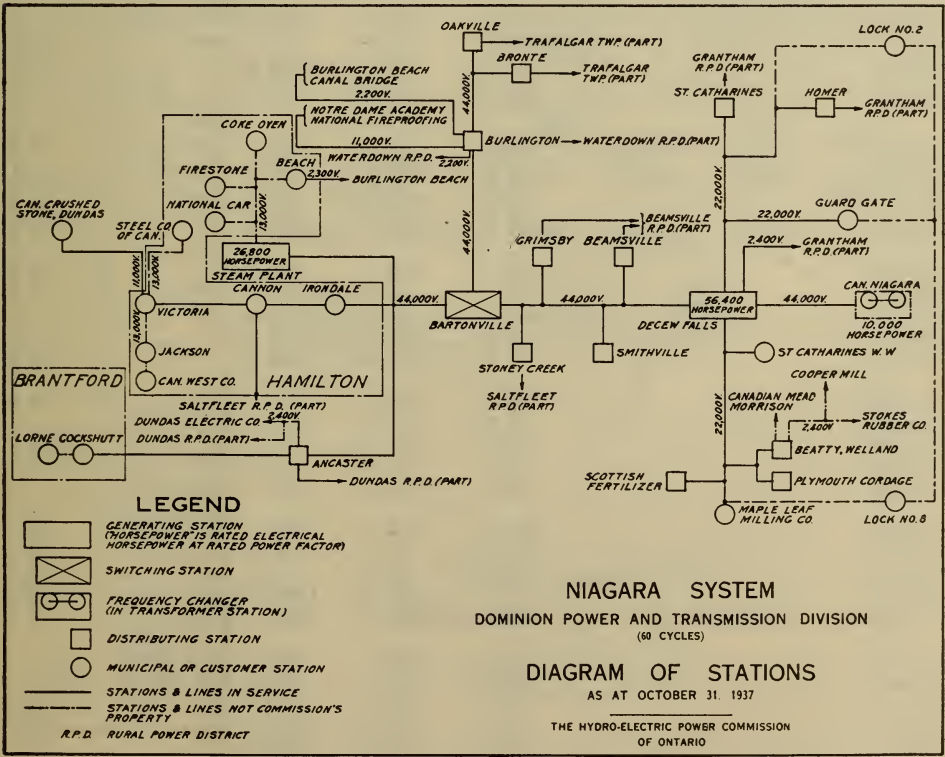
Distribution

There were eleven failures of low-tension transformers during the year, seven of which were repaired by the field maintenance staff and four by the manufacturers; the one under repair at the end of last year was completed. All equipment, including oil circuit-breakers, was inspected during the year and repairs and readjustments made where necessary.

No extreme difficulties were encountered in the operation and maintenance of the low-tension lines, although severe wind storms caused some damage in the Chatham, Sarnia and Stratford areas, resulting in interruptions to service in some districts.

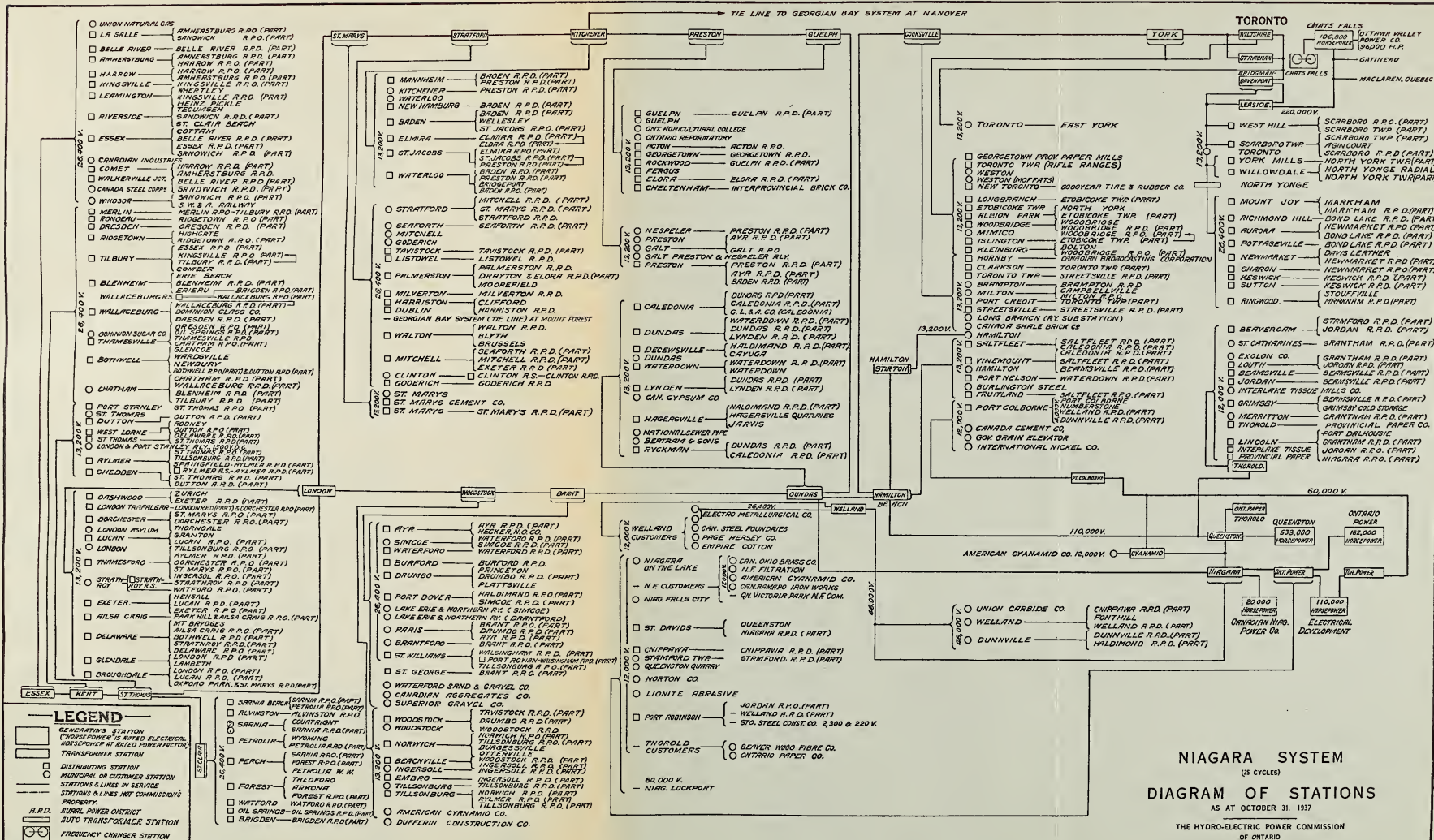
The 45-mile section of single-circuit line from Sebringville Junction to Harriston, undergoing overhaul at the end of last year, was completed. The ground wire was removed from approximately 72 miles and conductor transferred to pole-top pins on some 53 miles of line. As a result of extensive highway construction, it was necessary, at various places, to relocate or rebuild approximately 10 miles of line.

The poles on some 450 miles of line were inspected at the ground line and approximately 12,800 sand-creosote collars for ground line preservation were installed during the year.



NIAGARA SYSTEM—LOADS OF MUNICIPALITIES—1935-36-37

Municipality	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Acton.....	1,125.7	946.1	906.9	39.2	.....
Agincourt.....	147.4	150.1	158.2	.....	8.1
Ailsa Craig.....	89.8	88.9	91.1	.....	2.2
Alvinston.....	89.4	86.9	94.2	.....	7.3
Amherstburg.....	707.2	681.2	686.8	.....	5.6
Ancaster Township.....	282.7	299.2	314.6	.....	15.4
Arkona.....	48.2	46.3	56.3	.....	10.0
Aurora.....	1,016.0	1,186.3	1,162.2	24.1	.....
Aylmer.....	487.9	544.2	694.9	.....	150.7
Ayr.....	167.0	181.3	203.8	.....	22.5
Baden.....	268.2	267.1	291.1	.....	24.0
Beachville.....	395.4	418.2	470.5	.....	52.3
Belle River.....	127.3	150.1	154.1	.....	4.0
Blenheim.....	374.0	433.2	412.8	20.4	.....
Blyth.....	85.8	82.1	99.6	.....	17.5
Bolton.....	125.0	122.3	139.0	.....	16.7
Bothwell.....	109.3	107.2	132.0	.....	24.8
Brampton.....	2,168.8	2,326.6	2,629.0	.....	302.4
Brantford.....	14,023.8	13,446.5	15,541.3	.....	2,094.8
Brantford Township.....	594.9	603.9	693.0	.....	89.1
Bridgeport.....	105.9	138.1	123.2	14.9	.....
Brigden.....	66.7	74.0	80.1	.....	6.1
Bronte.....	.....	179.6	194.4	.....	14.8
Brussels.....	103.2	143.4	140.3	3.1	.....
Burford.....	139.7	160.1	147.6	12.5	.....
Burgessville.....	31.5	35.5	41.1	.....	5.6
Caledonia.....	341.6	361.5	332.0	29.5	.....
Campbellville.....	26.8	27.6	32.1	.....	4.5
Cayuga.....	116.6	115.3	126.2	.....	10.9
Chatham.....	4,821.4	5,067.2	5,344.4	.....	277.2
Chippawa.....	258.1	279.1	308.7	.....	29.6
Clifford.....	64.0	69.5	77.0	.....	7.5
Clinton.....	395.4	443.1	442.9	0.2	.....
Comber.....	116.6	122.5	174.2	.....	51.7
Cottam.....	62.3	58.3	68.3	.....	10.0
Courtright.....	37.2	37.0	45.0	.....	8.0
Dashwood.....	61.9	77.3	71.0	6.3	.....
Delaware.....	43.1	43.1	58.3	.....	15.2
Dorchester.....	103.1	91.8	110.9	.....	19.1
Drayton.....	92.1	113.0	108.3	4.7	.....
Dresden.....	289.9	308.3	321.9	.....	13.6
Drumbo.....	66.0	59.2	69.5	.....	10.3
Dublin.....	36.4	39.6	71.0	.....	31.4
Dundas.....	1,495.2	1,550.9	1,686.4	.....	135.5
Dunnville.....	930.3	963.0	1,095.9	.....	132.9
Dutton.....	206.1	232.1	228.4	3.7	.....
Elmira.....	680.9	700.5	678.4	22.1	.....
Elora.....	287.5	290.4	319.7	.....	29.3
Embro.....	86.0	107.2	113.2	.....	6.0
Erieau.....	67.0	58.3	129.3	.....	71.0



NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1935-36-37—Continued

Municipality	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Erie Beach.....	8.0	12.6	23.6		11.0
Essex.....	404.8	538.8	557.1		18.3
Etobicoke Township.....	4,449.0	4,657.8	5,299.4		641.6
Exeter.....	420.3	395.4	424.9		29.5
Fergus.....	882.7	1,062.3	1,169.5		107.2
Fonthill.....	145.5	130.7	139.1		8.4
Forest.....	331.1	344.9	411.8		66.9
Galt.....	5,988.5	6,409.7	7,093.3		683.6
Georgetown.....	1,089.8	1,181.3	1,220.1		38.8
Glencoe.....	166.7	198.0	172.8	25.2	
Goderich.....	947.3	1,027.2	1,083.5		56.3
Granton.....	100.0	111.2	50.0	61.2	
Guelph.....	8,688.3	8,822.4	9,258.0		435.6
Hagersville.....	521.5	894.0	920.2		26.2
Hamilton.....	98,859.8	96,655.4	108,284.5		11,629.1
Harriston.....	271.0	287.4	299.2		11.8
Harrow.....	376.6	475.2	489.8		14.6
Hensall.....	152.4	150.8	166.5		15.7
Hespeler.....	1,901.4	1,890.6	2,055.8		165.2
Highgate.....	64.3	73.8	70.9	2.9	
Humberstone.....	365.6	407.5	446.9		39.4
Ingersoll.....	2,076.7	2,144.6	2,380.5		235.9
Jarvis.....	148.5	183.6	207.7		24.1
Kingsville.....	447.4	487.9	509.6		21.7
Kitchener.....	16,976.5	18,000.6	20,400.3		2,399.7
Lambeth.....	101.8	93.8	87.8	6.0	
La Salle.....	197.3	202.1	227.5		25.4
Leamington.....	1,284.2	1,833.8	1,455.7	378.1	
Listowel.....	887.4	928.9	1,006.7		77.8
London.....	31,876.0	32,373.0	34,565.2		2,192.2
London Township Voted Area.....	449.8	460.4	503.1		42.7
Long Branch.....	761.4	860.6	820.3	40.3	
Lucan.....	121.3	126.6	198.8		72.2
Lynden.....	82.0	84.3	85.0		0.7
Markham.....	233.9	274.8	315.8		41.0
Merlin.....	75.0	67.0	81.2		14.2
Merritton.....	3,368.3	4,698.6	5,064.5		365.9
Milton.....	604.6	831.1	1,083.7		252.6
Milverton.....	261.4	321.7	298.9	22.8	
Mimico.....	2,426.3	2,245.3	2,438.3		193.0
Mitchell.....	415.5	430.0	487.2		57.2
Moorefield.....	50.0	53.6	31.2	22.4	
Mount Brydges.....	97.5	90.4	105.0		14.6
Newbury.....	48.5	43.0	31.9	11.1	
New Hamburg.....	395.4	478.6	464.1	14.5	
Newmarket.....	1,300.2	1,555.0	1,517.3	37.7	
New Toronto.....	5,942.3	5,884.7	7,042.8		1,158.1
Niagara Falls.....	9,241.3	9,113.9	9,699.7		585.8
Niagara-on-the-Lake.....	506.0	570.2	640.4		70.2
Norwich.....	358.6	350.5	376.6		26.1

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1935-36-37—Continued

Municipality	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Oakville.....		1,104.5	1,002.1	102.4	
Oil Springs.....	188.4	211.2	193.9	17.3	
Ontario Agricultural College.....	477.2	367.3	402.8		35.5
Ontario Central Reformatory.....	247.4	285.0	268.3	16.7	
Otterville.....	91.6	110.4	100.5	9.9	
Palmerston.....	420.3	408.0	465.9		57.9
Paris.....	1,262.2	1,157.4	1,287.0		129.6
Parkhill.....	128.9	150.1	144.2	5.9	
Petrolia.....	714.3	812.2	861.7		49.4
Plattsville.....	55.3	55.0	63.2		8.2
Point Edward.....	1,060.3	975.8	1,138.0		162.2
Port Colborne.....	1,405.9	1,604.0	1,753.9		149.9
Port Credit.....	658.2	693.0	735.9		42.9
Port Dalhousie.....	523.8	619.3	609.1	10.2	
Port Dover.....	321.6	348.2	327.1	21.1	
Port Rowan.....	63.0	65.1	72.0		6.9
Port Stanley.....	215.9	254.8	270.5		15.7
Preston.....	2,577.0	2,624.6	2,842.0		217.4
Princeton.....	95.4	100.8	116.6		15.8
Queenston.....	103.6	103.2	113.9		10.7
Richmond Hill.....	340.5	360.3	402.6		42.3
Ridgetown.....	467.8	479.2	477.4	1.8	
Riverside.....	911.8	958.7	950.6	8.1	
Rockwood.....	91.1	99.7	106.1		6.4
Rodney.....	123.2	122.6	142.1		19.5
St. Catharines.....	10,270.3	10,413.4	13,473.5		3,060.1
St. Clair Beach.....	71.4	79.0	89.1		10.1
St. George.....	164.3	159.5	168.0		8.5
St. Jacobs.....	274.8	256.0	298.9		42.9
St. Marys.....	1,314.1	1,280.6	1,250.6	30.0	
St. Thomas.....	6,246.6	7,079.0	7,496.0		417.0
Sarnia.....	7,558.9	7,666.2	8,288.0		621.8
Scarboro Township.....	3,281.5	3,357.9	3,692.2		334.3
Seaforth.....	518.7	508.5	517.9		9.4
Simcoe.....	1,675.7	1,977.2	2,006.7		29.5
Smithville.....		176.1	332.7		156.6
Springfield.....	85.7	62.0	64.3		2.3
Stamford Township.....	1,966.2	2,059.8	2,197.6		137.8
Stouffville.....	196.8	221.1	221.5		0.5
Stratford.....	6,436.0	6,904.8	6,906.3		1.5
Strathroy.....	971.8	1,155.4	1,132.7	22.8	
Streetsville.....	99.8	112.6	123.3		10.7
Sutton.....	151.8	192.0	240.2		48.2
Tavistock.....	471.8	483.1	571.0		87.9
Tecumseh.....	371.0	289.8	401.6		111.8
Thamesford.....	155.0	160.2	157.1		6.9
Thamesville.....	188.4	193.5	198.6		5.1
Thedford.....	135.1	110.5	129.0		18.5
Thorndale.....	42.0	37.4	43.5		6.1
Thorold.....	1,958.6	2,221.3	1,886.2	335.1	

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1935-36-37—Concluded

Municipality	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Tilbury.....	558.9	516.0	541.3	.....	25.3
Tillsonburg.....	870.5	951.1	1,085.9	.....	134.8
Toronto.....	297,723.8	311,327.1	330,459.8	.....	19,132.7
Toronto Township.....	2,034.8	2,164.2	2,278.1	.....	113.9
Trafalgar Township Area No. 1.....	.....	378.5	383.9	.....	5.4
Trafalgar Township Area No. 2.....	.....	131.5	113.3	18.2	.....
Wallaceburg.....	1,829.8	1,955.7	2,281.4	.....	325.7
Wardsville.....	30.8	32.9	34.3	.....	1.4
Waterdown.....	206.4	218.6	217.7	0.9	.....
Waterford.....	362.4	398.8	420.1	.....	21.3
Waterloo.....	2,864.6	2,946.4	3,599.2	.....	652.8
Watford.....	187.6	234.6	237.2	.....	2.6
Welland.....	3,745.7	4,428.1	5,668.9	.....	1,240.8
Wellesley.....	119.0	95.0	93.4	1.6	.....
West Lorne.....	107.2	132.4	116.9	15.5	.....
Weston.....	2,955.8	3,376.6	3,790.8	.....	414.2
Wheatley.....	129.3	139.1	150.9	.....	11.8
Windsor.....	.....	40,254.5	37,024.1	3,230.4	.....
Woodbridge.....	340.5	343.1	408.8	.....	65.7
Woodstock.....	5,073.7	5,227.9	6,025.5	.....	797.6
Wyoming.....	64.6	72.6	75.0	.....	2.4
York, East, Township.....	5,826.0	5,861.4	6,483.3	.....	621.9
York, North, Township.....	3,258.7	3,544.6	3,966.4	.....	421.8
Zurich.....	68.6	81.2	80.0	1.2	.....

NIAGARA SYSTEM—LOADS OF NEW MUNICIPALITY

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
Swansea.....	Oct. 9, 1937	2,817.6	2,817.6	.....	.....

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1935-36-37

Rural power district	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Acton.....	11.0	11.0	18.0	.....	7.0
Ailsa Craig.....	6.4	6.4	7.47	.....	1.07
Alvinston.....	3.1	3.1	6.0	.....	2.9
Amherstburg.....	483.6	515.1	655.9	.....	140.8
Aylmer.....	313.3	392.2	489.5	.....	97.3
Ayr.....	43.5	49.0	51.0	.....	2.0
Baden.....	416.7	458.8	562.8	.....	104.0
Beamsville.....	1,111.3	1,487.0	1,613.3	.....	126.3
Belle River.....	194.0	273.2	276.7	.....	3.5
Blenheim.....	163.8	181.0	130.9	50.1	.....

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1935-36, 37—Continued

Rural power district	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Bond Lake.....	1,179.3	1,311.8	1,386.6	.....	74.8
Bothwell.....	196.5	225.9	248.1	.....	22.2
Brampton.....	147.6	143.9	227.5	.....	83.6
Brant.....	498.1	666.1	715.0	.....	48.9
Brigden.....	46.6	50.7	49.3	1.4	.....
Burford.....	154.6	178.8	205.5	.....	26.7
Caledonia.....	372.2	415.8	464.2	.....	48.4
Chatham.....	468.6	515.4	581.5	.....	66.1
Chippawa.....	122.8	145.2	167.9	.....	22.7
Clinton.....	128.2	143.7	169.1	.....	25.4
Delaware.....	316.6	354.5	401.23	.....	46.73
Dorchester.....	340.1	386.4	417.1	.....	30.7
Dresden.....	38.9	44.5	78.4	.....	33.9
Drumbo.....	77.5	111.1	176.9	.....	65.8
Dundas.....	741.4	782.4	906.8	.....	124.4
Dunnville.....	41.5	41.5	55.0	.....	13.5
Dutton.....	133.1	143.8	173.8	.....	30.0
Elmira.....	82.1	93.8	98.0	.....	4.2
Elora.....	111.2	123.1	185.2	.....	62.1
Essex.....	217.4	234.1	303.0	.....	68.9
Exeter.....	239.2	247.6	288.3	.....	40.7
Forest.....	36.8	40.4	66.0	.....	25.6
Galt.....	200.5	222.6	264.1	.....	41.5
Georgetown.....	147.4	170.2	205.8	.....	35.6
Goderich.....	110.3	106.1	117.8	.....	11.7
Grantham.....	629.1	649.8	683.4	.....	33.6
Guelph.....	491.4	535.4	599.4	.....	64.0
Haldimand.....	225.1	314.0	317.0	.....	3.0
Harriston.....	20.1	21.7	31.4	.....	9.7
Harrow.....	287.4	339.9	439.6	.....	99.7
Ingersoll.....	427.2	500.0	612.3	.....	112.3
Jordan.....	321.9	345.2	482.0	.....	136.8
Keswick.....	249.5	375.7	506.9	.....	131.2
Kingsville.....	480.8	635.8	718.0	.....	82.2
Listowel.....	174.2	196.7	243.3	.....	46.6
London.....	1,848.6	2,028.1	2,252.9	.....	224.8
Lucan.....	55.3	55.0	116.1	.....	61.1
Lynden.....	177.2	227.3	220.5	6.8	.....
Markham.....	466.2	555.1	679.0	.....	123.9
Merlin.....	212.1	214.6	256.78	.....	42.18
Milton.....	175.6	178.3	201.4	.....	23.1
Milverton.....	83.1	103.4	130.5	.....	27.1
Mitchell.....	190.4	215.1	245.7	.....	30.6
Newmarket.....	260.6	334.4	362.5	.....	28.1
Niagara.....	611.7	548.7	814.2	.....	265.5
Norwich.....	306.2	336.6	405.3	.....	68.7
Oil Springs.....	37.7	39.3	61.8	.....	22.5
Palmerston.....	52.8	56.2	73.1	.....	16.9
Petrolia.....	29.3	30.3	45.9	.....	15.6
Preston.....	948.3	1,018.9	1,273.6	.....	254.7

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1935-36,37—Concluded

Rural power district	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Ridgetown.....	271.1	302.8	388.3		85.5
St. Jacobs.....	249.8	242.5	270.0		27.5
St. Marys.....	220.5	245.5	293.6		48.1
St. Thomas.....	700.4	794.4	867.1		72.7
Saltfleet.....	1,058.0	1,310.9	1,434.05		123.15
Sandwich.....	1,030.9	1,095.4	1,212.41		117.01
Sarnia.....	490.7	613.2	718.3		105.1
Scarboro.....	397.4	507.2	644.8		137.6
Seaforth.....	63.7	71.2	72.9		1.7
Simcoe.....	249.6	325.3	388.55		63.25
Stamford.....	176.6	182.5	247.1		64.6
Stratford.....	158.6	192.0	236.8		44.8
Strathroy.....	115.0	125.5	163.9		38.4
Streetsville.....	360.6	435.6	428.9	6.7	
Tavistock.....	205.0	242.6	336.1		93.5
Thamesville.....	120.9	140.2	145.6		5.4
Tilbury.....	158.4	218.2	271.72		53.52
Tillsonburg.....	369.8	448.7	525.2		76.5
Wallaceburg.....	223.2	231.2	297.7		66.5
Walsingham.....	239.8	334.2	523.8		189.6
Walton.....	103.2	148.5	123.3	25.2	
Waterdown.....	983.4	1,267.2	1,391.1		123.9
Waterford.....	215.0	265.9	316.3		50.4
Watford.....	17.5	36.7	44.4		7.7
Welland.....	1,168.9	1,265.3	1,586.2		320.9
Woodbridge.....	594.3	728.5	790.7		62.2
Woodstock.....	582.0	667.8	771.7		103.9

GEORGIAN BAY SYSTEM

Operation

The Georgian Bay system peak load was ten per cent, and the energy distributed six per cent, in excess of last year. Water conditions generally throughout the system were much better than in the previous year and the additional energy requirements were taken care of by increased output of Eugenia Falls plant and the plants on the Severn river and by increased transfer from Niagara system, through the Hanover frequency-changer set. Only a small amount of power was purchased from the Orillia Water, Light and Power Commission. This occurred in the first half month of the fiscal year and for a very short period in March during line trouble.

A number of changes and additions were made this year to facilitate transfer of power between districts and to improve voltage regulation. Briefly summarized, these include the construction of a 38,000-volt line from Waubesa to Fergusonvale, the reinsulation for 38,000-volt operation of one of the

22,000-volt circuits from Fergusonvale to Collingwood, and of the 22,000-volt tie line from Collingwood to Eugenia power house, the removal of the two 3,000-kv-a, 38,000/22,000-volt auto-transformers from Waubaushene to a new station at Fergusonvale, and the installation of two new 3,000-kv-a, 38,000/22,000-volt auto-transformers at Eugenia Falls generating station to replace two 1,500-kv-a units which were then transferred to Waubaushene to be placed in service at a later date. On July 11, one 3,000-kv-a auto-transformer was moved from Waubaushene to Fergusonvale and placed in service along with the new 38,000-volt line from Waubaushene to Fergusonvale. On July 18, the second 3,000-kv-a auto-transformer was moved from Waubaushene to Fergusonvale and placed in service. At the same time the reinsulated line from Fergusonvale to Eugenia generating station was placed in service at 38,000-volts. This completed the 38,000-volt tie line connecting the Muskoka, Wasdells, Severn and Eugenia districts. Between August 7 and 11, two new 3,000-kv-a, 38,000/22,000-volt auto-transformers were installed and placed in service at Eugenia generating station.

Maintenance

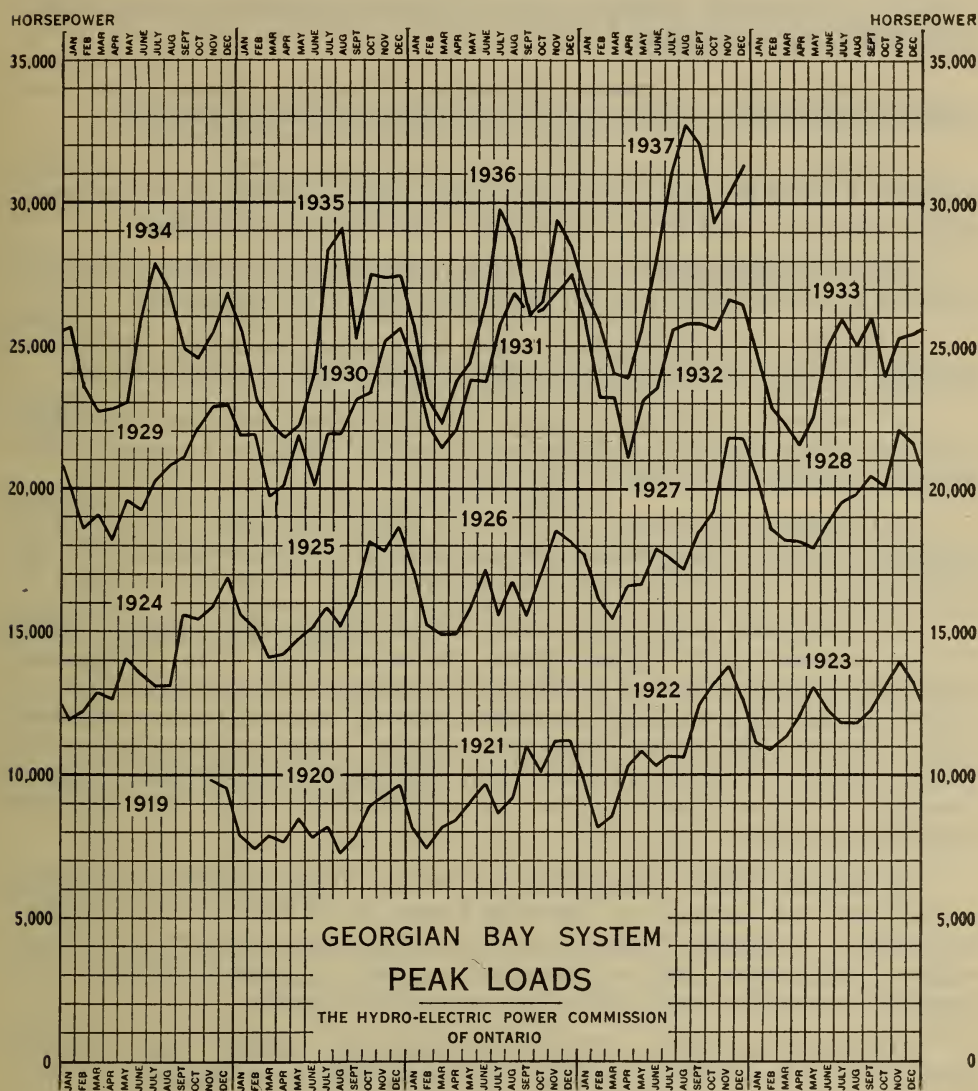
At Eugenia Falls generating station tests revealed defects in the fourteen compound-filled bushings of the two 1,500-kv-a, 38,000/22,000-volt auto-transformers, which were in service at this station previous to August 7. Seven new liquid-filled bushings were purchased and used to replace the old bushings in one transformer, eleven of the old bushings were repaired, seven re-installed in the other auto-transformer and four shipped to Paisley distributing station to replace similar defective bushings. The six banks of electrolytic lightning arresters were thoroughly overhauled, new electrolyte added and defective trays replaced. The fence along the eighth-concession fill across the storage basin was repaired or rebuilt as required and riprap placed to reinforce the posts. The machine shop lathe, which was purchased secondhand in 1919, was shipped to the manufacturer's plant where it was completely overhauled.

At Mount Forest frequency-changer station a new roof was laid, defective 2,300-volt cable between the 60-cycle oil circuit-breaker and the low-tension side of the 60-cycle transformer bank was replaced, and four of the bushings in the 60-cycle transformer bank were repaired.

At Hanover frequency-changer station discharge ducts were installed on the machines with suitable dampers to discharge the warm air through the roof in hot weather or to recirculate it through the building for heating when required. By means of a drilled well and a deep well pump suitable provision was made for a supply of cooling water for the bearings, when required, and for make-up water for the transformer cooling system.

At Big Chute generating station the roof covering was renewed by the addition of new felt, tar and gravel. The timber bridge, railing and stop-log winch tracks over the dam were replaced. In the new structure a pipe railing and steel I-beams for supports and stop-log winch tracks were used in place of timber.

At Bala No. 1 generating station all gate bolts and brass bushings in the gates of the two turbines were replaced. The turbine casings were cleaned and



NOTE:—The Georgian Bay system includes the Severn, Eugenia, Wasdells, Muskoka and Bala districts. In the diagram the load for the Muskoka district is not included until November, 1924. Details respecting this load for preceding years are given in earlier annual reports. The load of the Bala district is not included in above graph until April, 1931, previous meter records being incomplete.

painted with red lead. Two cases of failure of armature coil insulation occurred in No. 2 machine and fourteen coils were replaced.

At Bala No. 2 generating station a large concrete patch was placed over a defective portion of the north wall of the turbine pit.

At South Falls generating station the No. 2 headgate was completely rebuilt and defective timbers in No. 1 and No. 3 headgates were replaced. Repairs were necessary on two piers of the dam owing to spalling and checking

of the concrete around the stop-log gains. These were effected by bolting heavy upright timbers to the piers.

At Southampton, Hanover, Walkerton, Wasdells, Hanna Chute and Trethewey generating stations only routine maintenance was required.

At Alliston distributing station the transformer capacity was increased from 225 kv-a to 375 kv-a, new high-voltage fuses installed, the old airbreak switch removed, a new fence erected and a roof ventilator installed.

At Barrie distributing station a 24-volt battery with trickle charger was installed to provide direct current for tripping the oil circuit-breaker.

At Bradford distributing station new high-voltage fuses were installed, a new pole structure and fence erected, and the old airbreak switch removed.

At Coldwater distributing station new high-voltage fuses were installed. New low-voltage lightning arresters were provided owing to a change in distribution voltage from 2,300 to 4,000 volts.

At Cookstown distributing station new high-voltage fuses and lightning arresters, and low-voltage fuses were installed, a new fence erected, the old airbreak switch removed, and a concrete pad provided for the transformer.

At Collingwood distributing station certain changes were required owing to the conversion of the Eugenia-Severn tie line to 38,000 volts. Collingwood was formerly supplied by two 22,000-volt circuits from Severn district, and one 22,000-volt circuit from Eugenia district, the tie between the two districts being through Collingwood distributing station. Under the new set-up the town is served by one 22,000-volt circuit from Severn district with switches arranged so that emergency service can be provided at 22,000 volts over the 38,000-volt circuit.

At Holland Centre distributing station the 10-kv-a 22,000/110-220-volt transformer was damaged by lightning August 13. A new winding was purchased from the manufacturer and the transformer was rebuilt by the Niagara system maintenance staff at Davenport station. A spare transformer was installed to provide service while these repairs were made.

At Innisfil distributing station the transformer capacity was increased from 450-kv-a to 750-kv-a, and new low-voltage fuses were installed.

At Meaford distributing station the transformer connections were changed for operation at 38,000 volts July 18, when the Eugenia-Severn tie line was placed in service at this voltage, as Meaford is supplied from this tie line. The high-voltage fuses and lightning arresters were replaced and voltage regulators were installed.

At Owen Sound distributing station a leak developed in a cooling coil of one of the transformers and considerable oil was drawn from the transformer. This leak was repaired and all oil in the transformer was filtered to remove any moisture which might have been drawn into the oil.

At Paisley distributing station the transformer capacity was increased from 225 kv-a to 450-kv-a. Three 75-kv-a, 22,000/2,300-volt transformers were removed and three 150-kv-a, 22,000/4,800-volt transformers were in-

stalled to provide 8,000-volt service for the rural feeder. To provide 4,000-volt service for Paisley distribution, three 50-kv-a, 4,800/2,400-volt transformers were installed.

At Penetang distributing station a 300-kv-a transformer failed in service and was returned to the manufacturer for repairs.

At John E. Russell distributing station a 150-kv-a transformer failed in service and was returned to the manufacturer for repairs.

At Thornton and Tottenham distributing stations new high- and low-voltage fuses were installed, new fences erected, the old airbreak switches removed and concrete pads provided for the transformers.

At Waubaushene distributing station the transformer capacity was increased from 75 kv-a to 150 kv-a, and two 4,000-volt feeders provided for Waubaushene and rural service.

Eleven municipalities were assisted with the operation and maintenance of their distribution systems on nineteen occasions.

Blasting operations of highway contractors along the Muskoka-Wasdells tie line were responsible for damage to the line on a number of occasions and temporary repairs were made in each case. Permanent repairs will be required on completion of the blasting.

The only case of transmission line failure occurred on October 19, when seven poles were broken between Dundalk and Shelburne by a very high wind.

Five obsolete airbreak switches in the Severn district were replaced with airbreak switches of modern design.

Sixty-seven storm guys were erected in the lines between Midland and Penetang, between Eugenia generating station and Flesherton and between Flesherton and Dundalk.

To accommodate changes in highway locations, extensive re-routing of lines was required between Markdale and Owen Sound, and between Cookstown and Alliston. For the same reason it was necessary to move certain poles between Waubaushene and Midland, between Wasdells Falls generating station and Brechin, at Fennels Corners north of Bradford, and in the town of Huntsville.

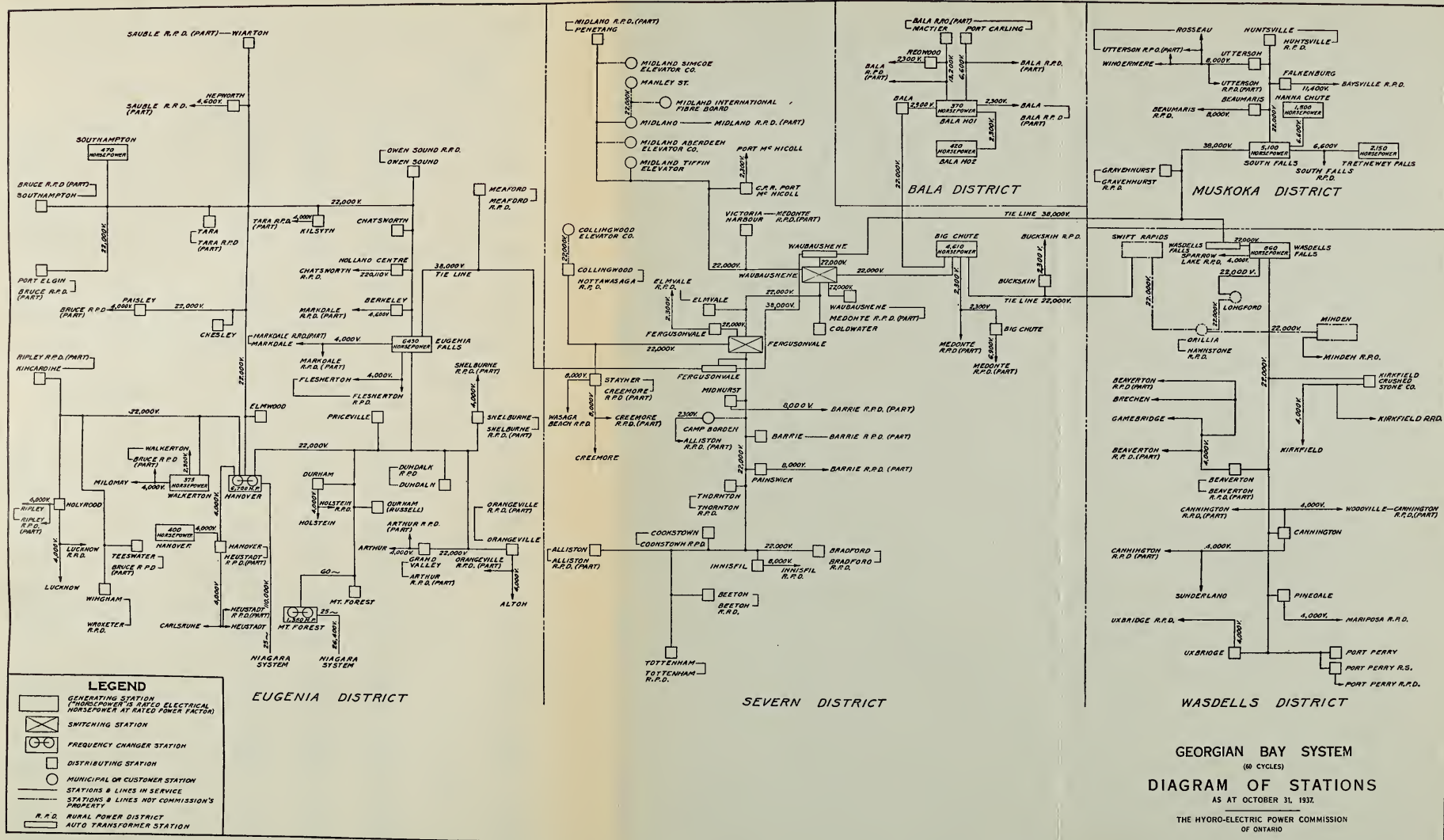
To provide sufficient clearance with the Bell Telephone Company circuits a number of guys were re-arranged in the lines between Eugenia generating station and Dundalk, between Hanover and Tara, and between Hanover and Walkerton.

Telephone communication was established between Head Office and the Severn district over a private line.

In addition to routine patrol and maintenance, 120 poles were replaced, 145 poles were reinforced by the addition of stubs and 1,350 poles received preservative treatment at the ground line by the application of sand-cresote collars. Approximately 275 defective crossarms, 700 defective insulators and 2,500 defective insulator pins were replaced.

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES—1935-36-37

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Alliston.....	210.3	249.6	283.8	.....	34.2
Arthur.....	130.0	156.3	143.7	12.6	.....
Bala.....	113.0	135.0	211.0	.....	76.0
Barrie.....	2,396.4	2,473.6	2,678.7	.....	205.1
Beaverton.....	175.6	228.8	216.5	12.3	.....
Beeton.....	97.5	96.8	114.0	.....	17.2
Bradford.....	171.8	192.5	184.2	8.3	.....
Brechin.....	62.8	49.3	57.7	.....	8.4
Cannington.....	145.3	142.5	154.2	.....	11.7
Carlsruhe.....	.....	5.0	5.0	.....	.....
Chatsworth.....	56.3	66.3	65.9	0.4	.....
Chesley.....	492.6	504.0	485.2	18.8	.....
Coldwater.....	316.0	264.0	308.7	.....	44.7
Collingwood.....	1,206.2	1,170.0	1,346.5	.....	176.5
Cookstown.....	71.6	65.1	69.1	.....	4.0
Creemore.....	101.7	100.5	104.0	.....	3.5
Dundalk.....	198.4	188.2	185.0	3.2	.....
Durham.....	288.2	314.3	288.7	25.6	.....
Elmvale.....	152.4	151.8	153.5	.....	1.7
Elmwood.....	54.7	68.0	52.2	15.8	.....
Flesherton.....	79.2	91.3	84.2	7.1	.....
Grand Valley.....	106.4	123.6	127.7	.....	4.1
Gravenhurst.....	650.6	657.8	888.2	.....	230.4
Hanover.....	1,029.5	1,046.2	1,025.1	21.1	.....
Hepworth.....	32.9	33.7	29.5	4.2	.....
Holstein.....	18.2	17.9	17.1	0.8	.....
Huntsville.....	863.2	904.6	1,000.0	.....	95.4
Kincardine.....	552.7	585.6	647.1	.....	61.5
Kirkfield.....	25.8	24.6	25.0	.....	0.4
Lucknow.....	262.2	271.4	301.2	.....	29.8
MacTier.....	134.0	129.0	149.0	.....	20.0
Markdale.....	151.7	186.0	181.0	5.0	.....
Meaford.....	467.1	482.0	553.6	.....	71.6
Midland.....	2,984.2	2,904.3	2,801.2	103.1	.....
Mildmay.....	81.0	89.2	107.5	.....	18.3
Mount Forest.....	412.8	418.6	438.3	.....	19.7
Neustadt.....	32.4	27.3	35.5	.....	8.2
Orangeville.....	529.8	571.2	641.8	.....	70.6
Owen Sound.....	3,307.8	3,727.4	3,837.3	.....	109.9
Paisley.....	116.0	117.9	129.6	.....	11.7
Penetanguishene.....	638.6	653.4	750.9	.....	97.5
Port Carling.....	87.0	145.0	118.0	27.0	.....
Port Elgin.....	318.3	276.6	304.9	.....	28.3
Port McNicoll.....	75.7	77.0	76.9	0.1	.....
Port Perry.....	238.8	262.0	269.7	.....	7.7
Priceville.....	15.1	15.9	17.0	.....	1.1
Ripley.....	58.3	58.3	56.9	1.4	.....
Rosseau.....	36.4	36.9	28.3	8.6	.....
Shelburne.....	224.1	211.4	223.6	.....	12.2
Southampton.....	214.0	224.9	247.6	.....	22.7



GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES—1935-36-37—Concluded

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Stayner.....	196.1	242.6	218.3	24.3	.....
Sunderland.....	59.6	65.6	72.1	.....	6.5
Tara.....	81.7	84.8	104.6	.....	19.8
Teeswater.....	111.7	132.5	145.4	.....	12.9
Thornton.....	30.0	28.0	23.3	4.7	.....
Tottenham.....	61.0	59.9	70.2	.....	10.3
Uxbridge.....	226.9	250.7	276.1	.....	25.4
Victoria Harbour.....	71.3	70.0	69.7	0.3	.....
Walkerton.....	465.3	561.0	583.8	.....	22.8
Waubashene.....	42.2	85.3	91.5	.....	6.2
Warton.....	256.7	272.2	306.2	.....	34.0
Windermere.....	23.6	20.9	41.1	.....	20.2
Wingham.....	374.8	362.2	350.2	12.0	.....
Woodville.....	64.6	58.4	66.5	.....	8.1

GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS—1935-36-37

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Alliston.....	86.9	100.2	120.6	.....	20.4
Arthur.....	3.2	4.0	4.8	.....	0.8
Bala.....	152.0	110.0	213.0	.....	103.0
Barrie.....	240.8	301.2	418.4	.....	117.2
Baysville.....	64.3	80.1	132.3	.....	52.2
Beaumaris.....	116.0	123.3	175.6	.....	52.3
Beaverton.....	138.0	135.4	196.6	.....	61.2
Beeton.....	5.0	5.0	5.0	.....	.....
Bradford.....	55.5	52.1	79.6	.....	27.5
Bruce.....	141.4	137.1	128.2	8.9	.....
Buckskin.....	19.3	17.2	20.0	.....	2.8
Cannington.....	51.9	41.0	50.0	.....	9.0
Chatsworth.....	7.3	8.0	9.3	.....	1.3
Cookstown.....	0.8	1.2	1.5	.....	0.3
Creemore.....	55.0	55.0	81.0	.....	26.0
Dundalk.....	.....	8.4	12.0	.....	3.6
Elmvale.....	67.0	75.0	87.8	.....	12.8
Flesherton.....	8.3	7.7	11.1	.....	3.4
Gravenhurst.....	22.3	29.3	30.0	.....	0.7
Hawkestone.....	75.6	93.3	144.8	.....	51.5
Huntsville.....	57.8	86.4	171.9	.....	85.5
Innisfil.....	127.3	182.3	240.6	.....	58.3
Mariposa.....	152.5	171.6	189.8	.....	18.2
Markdale.....	41.4	42.0	44.9	.....	2.9
Meaford.....	.....	15.0	12.0	3.0	.....
Medonte.....	19.0	46.1	75.8	.....	29.7
Midland.....	41.1	97.0	128.3	.....	31.3
Minden.....	.....	29.5	46.2	.....	16.7
Neustadt.....	.....	0.8	3.5	.....	2.7
Nottawasaga.....	32.4	36.4	36.8	.....	0.4

GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS—1935-36-37
Concluded

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Increase	Decrease
Orangeville.....	47.9	41.1	60.0	.....	18.9
Owen Sound.....	36.7	52.7	83.6	.....	30.9
Port Perry.....	124.6	124.4	145.5	.....	21.1
Ripley.....	10.3	11.3	24.5	.....	13.2
Sauble.....	7.8	24.3	28.8	.....	4.5
Shelburne.....	31.6	47.7	38.0	9.7	.....
Sparrow Lake.....	106.3	161.1	157.1	4.0	.....
Tara.....	58.3	81.1	112.9	.....	31.8
Thornton.....	13.6	12.8	17.0	.....	4.2
Tottenham.....	.....	0.4	7.0	.....	6.6
Utterson.....	47.6	60.5	85.5	.....	25.0
Uxbridge.....	121.3	108.1	134.7	.....	26.6
Wasaga Beach.....	79.0	110.9	130.0	.....	19.1
Wroxeter.....	110.9	115.0	144.4	.....	29.4

GEORGIAN BAY SYSTEM—NEW RURAL POWER DISTRICT LOADS

Rural power district	Date Connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
Holstein.....	Nov. 1, 1936	2.5	3.0	.....	0.5
Kirkfield.....	June 1, 1937	11.5	22.0	.....	10.5
Lucknow.....	Nov. 1, 1936	6.0	6.0	.....	.....
South Falls.....	June 1, 1937	1.0	5.0	.....	4.0

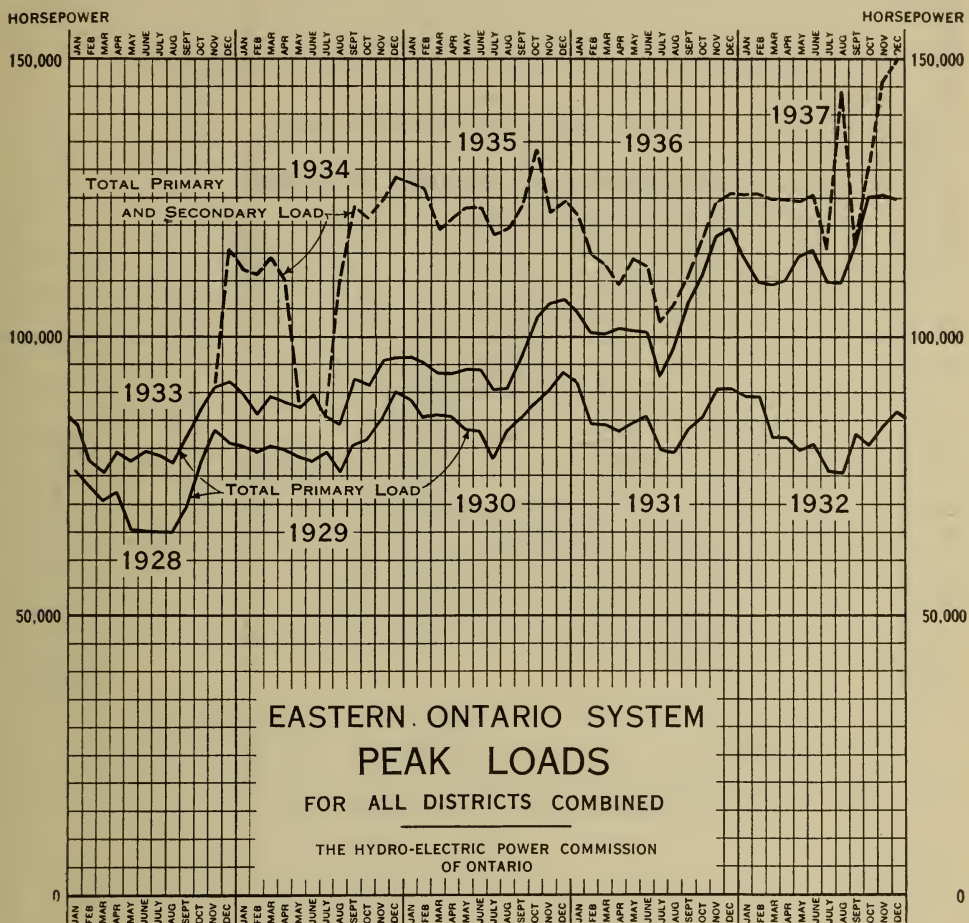
EASTERN ONTARIO SYSTEM

Operation

The Eastern Ontario system monthly primary peaks and average loads have again shown substantial increases over the previous fiscal year and have without exception exceeded all recorded maxima for corresponding months in any year. The maximum primary peak increased 12.5 per cent and the total primary kilowatt-hours increased 10.4 per cent.

Secondary power decreased from approximately 113,000,000 kilowatt-hours last year to 91,800,000 kilowatt-hours this year.

Due to increasing load demand, particularly in the Central Ontario district, and recurring periods of low stream flow resulting in serious reductions in the output capacity from Commission-owned generating stations, the system power supply was augmented by the construction of a single-circuit, 110,000-volt, wood-pole transmission line between Sidney and Chats Falls. Five small generating stations were also purchased. In addition a contract providing for the supply of 800 horsepower firm power was completed with the town of Campbellford. This supply became effective September 1, 1937.



Three of the recently acquired generating stations referred to above are situated on the Otonabee river near Lakefield and were purchased from the Canada Cement Company. The remaining two, one of which is located near Frankford and the other immediately adjacent to the Commission's plant at Ranney Falls on the Trent river, were purchased from the Quinte and Trent Valley Power Company. These plants have a presently installed output capacity of 6,800 horsepower. In order that the three plants in the vicinity of Lakefield could be paralleled with the rest of the system, a 3,000-kv-a, 44,000-volt, step-up transformer station was built at Lakefield and a 44,000-volt transmission line was constructed between this station and Auburn switching station. The plant at Frankford is now paralleled with the system at Sidney over an existing 6,600-volt feeder. Construction of step-up transformer stations and necessary interconnecting 44,000-volt lines are now in hand for both the Frankford and Ranney Falls generating stations.

Construction of the 110,000-volt Chats Falls-Sidney transmission line was completed and the line became available for service on July 21. However, as construction of the transformer station at Sidney could not be completed for

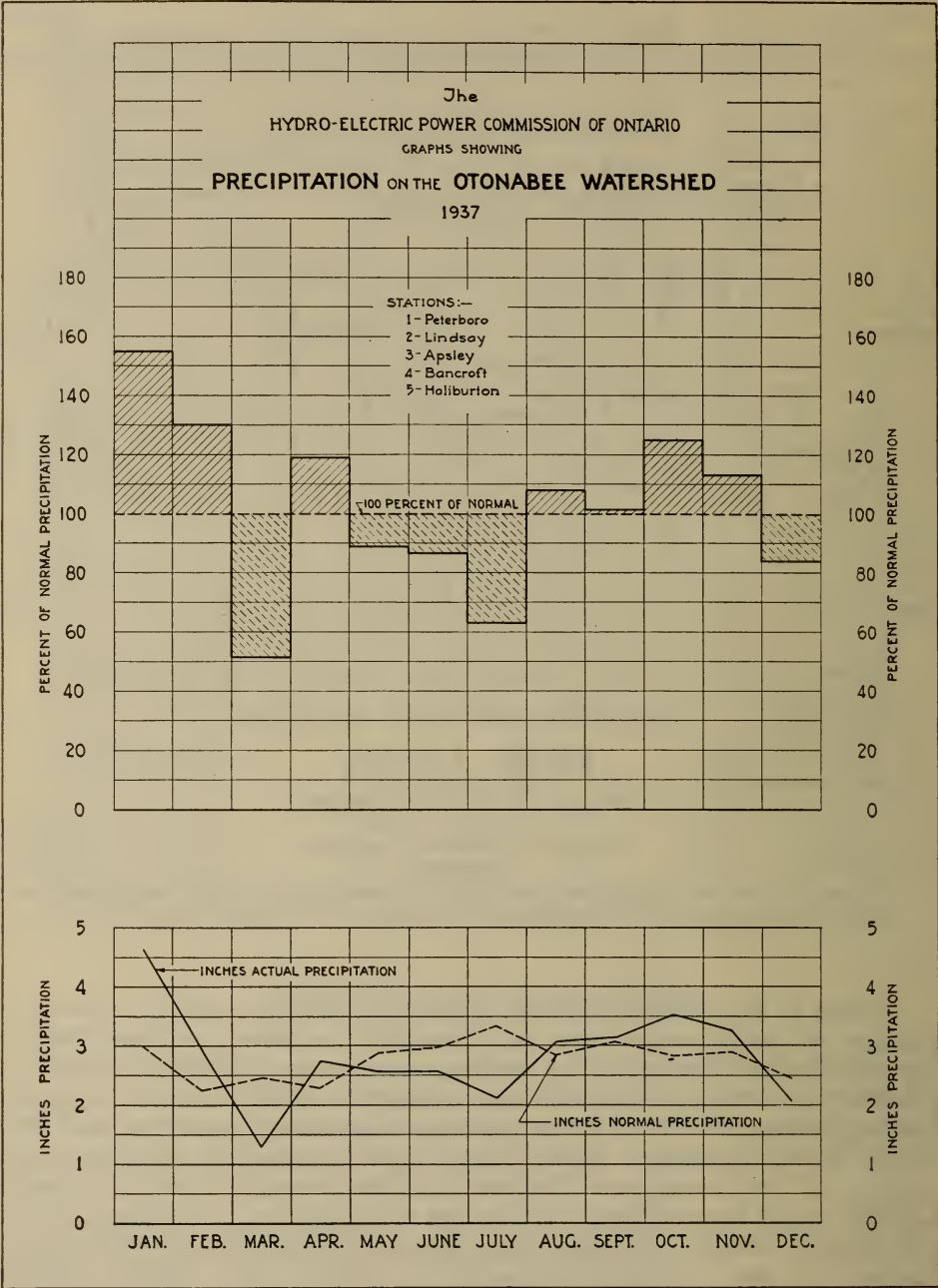


PLATE A—PRECIPITATION DATA—1937

The upper graph represents the estimated actual monthly precipitation on the Otonabee watershed expressed as a percentage of the normal precipitation.

The estimate is based upon the actual and normal return of the Meteorological Service for Peterboro, Lindsay, Apsley, Bancroft and Haliburton.

Although the numerical values differ from month to month the normal precipitation is taken as 100 per cent, hence the solidly hatched areas represent the amount by which the precipitation exceeded the average while the dotted hatched area represents in a similar manner the deficiencies.

The lower graph shows the actual and normal precipitation in inches of rain. The figures used for the actual precipitation are the numerical averages of the monthly returns from the five stations listed above. The normal figures are derived similarly but are the averages for a period of years.

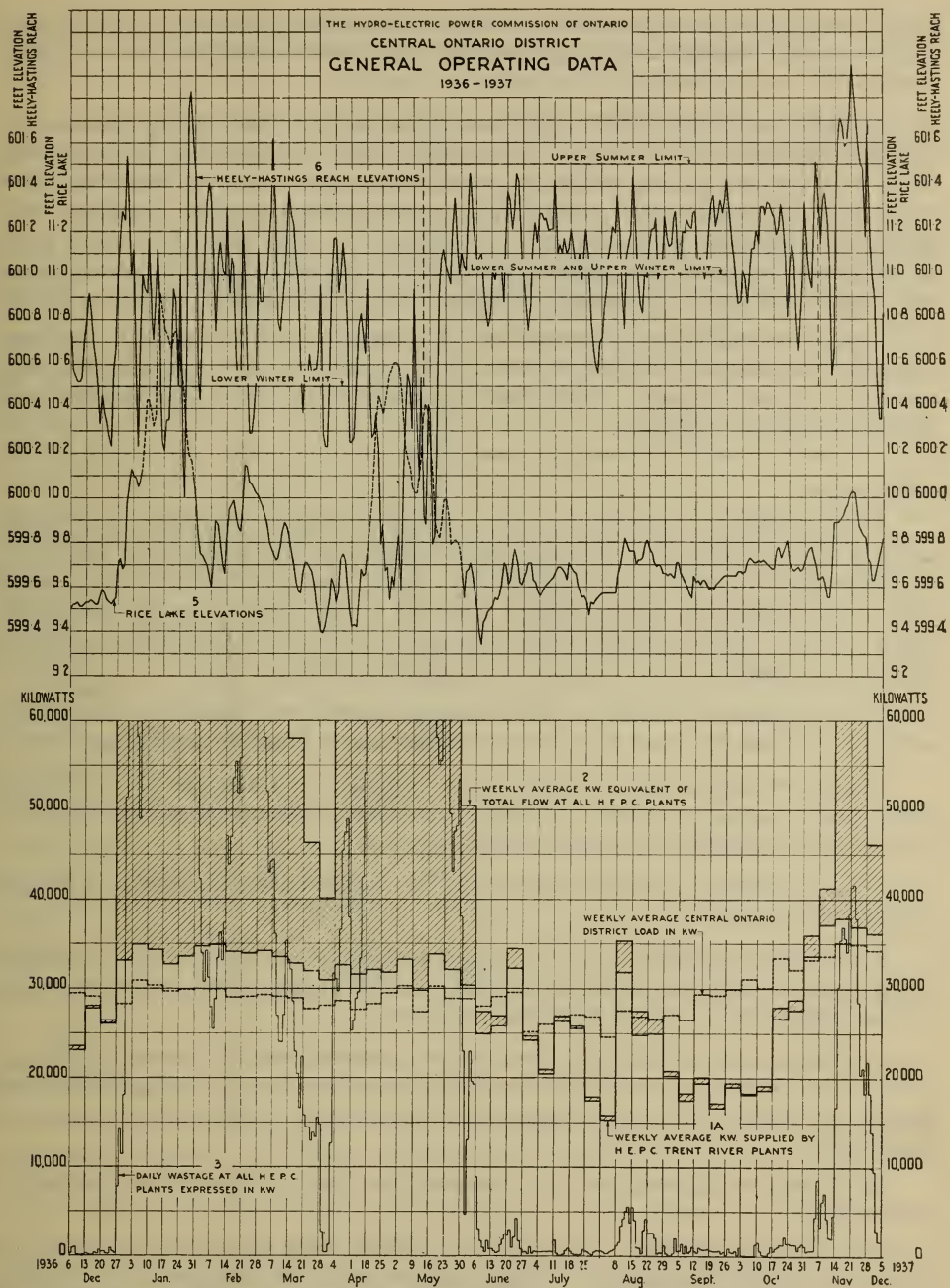


PLATE B—GENERAL OPERATING DATA—December 6, 1936, to December 5, 1937

- Graph No. 1—System average weekly load in kilowatts which includes power purchased from the Gatineau Power Company.
- Graph No. 1a—Weekly average load in kilowatts supplied by H-E.P.C. plants on the Trent and Otonabee rivers.
- Graph No. 2—Weekly average power equivalent of total flow at all H-E.P.C. plants. This equals the weekly average load supplied by these plants, plus the power equivalent of the weekly average wastage at these plants. This wastage is shown by the dotted hatched area between curves 2 and 1a.
- Graph No. 3—Average daily wastage at all H-E.P.C. plants. In the weekly aggregate the area under this graph equals the wastage represented by the dotted hatched area between curves 2 and 1a.
- Graph No. 5—Midnight elevations of Rice Lake.
- Graph No. 6—Midnight elevations of Heely-Hastings reach.

several weeks, the line was made available for emergency service at 44,000 volts. The frequency changer was paralleled with the system over this line on July 21 and 22 for test purposes, with satisfactory results.

Stream flow on the Trent river was appreciably better during the seasonal low flow period of 1937 than it was during the previous year. Nevertheless, there were periods during which the weekly average flows were less than 1,000 c.f.s., and the consequent reduction in generating capacity, together with substantial increases in load, made it necessary to bring into the system additional power to meet the primary load requirements. This additional power was obtained from the frequency-changer set at Chats Falls over the new line.

Service to the steam generator at the Howard Smith Paper Mills at Cornwall was discontinued on July 28 for a period of two weeks, and following this, service was only given at such times as surplus power in sufficiently large amounts became available.

Maintenance

During the year the usual program of general plant inspection and maintenance was carried out. A number of turbines were unwatered and inspected, and necessary repairs and adjustments made. The governors in the various plants were inspected and adjusted. Several of the forebays were unwatered, racks cleaned, sunken debris removed, and the concrete carefully inspected. Lightning arresters were overhauled during the winter season.

High-tension oil breakers were inspected and overhauled in accordance with the number of times they had operated under trouble conditions.

Defective high-tension bushings were replaced in a number of oil breakers and transformers. A number of defective insulators were replaced on the high-tension bus structures at several stations.

Ground detectors were installed on the direct-current circuits at several generating stations.

Painting of buildings, structures and apparatus was carried out at numerous places throughout the system. Further details are given below regarding the maintenance of various stations and lines.

At Sidney, plant No. C-2, the wooden barriers located above the racks in front of the forebay were rebuilt in removable sections in order to facilitate work during ice trouble. One main turbine and the exciter turbine were thoroughly overhauled.

At Frankford, plant No. C-5, two of the main turbines were thoroughly overhauled.

At Meyersburg, plant No. C-8, all turbines were inspected but no major repairs were found necessary. The high-tension oil breakers were all overhauled. A three-phase directional power relay was installed on one of the 44,000-volt line oil breakers.

At Ranney Falls, plant No. C-10, the turbines were inspected but no major repairs were found necessary. High resistance contacts developed between the interconnecting straps and the windings of the field poles on both generators at this plant. One generator was completely dismantled and thoroughly overhauled, but only temporary repairs were made on the second machine.

The 44,000-volt oil breakers, and the electrolytic lightning arresters were overhauled. A three-phase directional power relay was installed on one of the 44,000-volt line oil breakers.

At Seymour, plant No. C-11, the forebay was unwatered, and the racks were cleaned. All turbines were inspected but no extensive maintenance was found necessary.

At Heely Falls, plant No. C-14, the turbines, relief valves, etc., were all thoroughly inspected, but only minor repairs were found necessary. The racks in front of the penstocks were inspected and cleaned by a diver. All generators were given a thorough overhauling, which included the removal, testing and painting of field coils, replacement of defective plywood collars, and providing new insulation between the coils and the iron when the field coils were replaced. Damaged or defective armature coils were replaced, new wedges and insulation installed in the slots, and the armature sprayed with an insulating varnish. Before this work was completed, grounds developed in three of the field coils of one generator, thereby short-circuiting a portion of the field and giving rise to serious unbalanced magnetic forces which sheared the dowel pins and bent the holding bolts of the outer generator bearing pedestal, distorted the dowel pins of the inner generator bearing, and sheared the dowel pins and distorted the bolts holding the stator to the bed plate. Before this machine could be brought to rest the pole tips of the rotor came in contact with the stator and damaged a section of the iron laminations. Fortunately, the shaft was not bent or damaged. Repairs were undertaken and the machine was returned to service on July 2. Defective 44,000-volt disconnecting switches were replaced on one of the transformer banks. A new 60-cell storage battery and suitable rack was installed.

At Auburn, plant No. C-18, all turbines and governors were completely overhauled. As a result of repeated coil failures, due to deterioration of the insulation following 25 years of service, complete replacement of the stator windings and partial replacement of the stator iron laminations in two 625-kv-a, 6,600-volt generators was carried out by the manufacturer. Special lightning arresters were installed for the protection of the above two generators. A new private telephone switchboard was installed for the purpose of facilitating work in connection with the operation of the various plants in that district.

At Fenelon Falls, plant No. C-30, the main turbines and the exciter turbine were overhauled.

At Calabogie generating station on the Madawaska river, a broken turbine shaft was replaced. The lower section of the outside concrete wall of one of the wheel-pits was badly eroded and leaking. This section was removed and the wall rebuilt. The output capacity of this plant was increased by approximately 600 horsepower by the excavation of a ridge in the tail race. The stringers and platform on the north branch dam were renewed and guard rails installed. The stringers over the entrance to the log chute were renewed. All the high-tension and low-tension oil breakers and electrolytic lightning arresters were overhauled.

At High Falls generating station on the Mississippi river all electrical equipment was thoroughly inspected. The cores were removed from the tanks of the three high-tension transformers and the windings and tanks were thoroughly cleaned and the oil completely changed. The windings and rotors of

all five generators were thoroughly cleaned and painted. A number of wedges and some of the slot insulation were replaced. The turbine cases and generator frames were all cleaned and painted. The generator field rheostats were all overhauled. The high-tension and low-tension oil breakers and the electrolytic lightning arresters were overhauled.

At Carleton Place generating station on the Mississippi river all stop logs in the spare wheel pit were replaced. The upper guide bearings on each turbine were re-babbited.

At Brockville distributing station, due to increased load demand, the 750-kv-a transformer was replaced with a 1,500-kv-a, three-phase, 44,000/2,400-volt transformer, which was placed in service on September 26. The capacity of this station is now 3,000-kv-a.

At Cornwall transformer station the 110,000-volt and 44,000-volt oil breakers were overhauled. All the 110,000-volt disconnecting switches were reinforced. A double garage was erected on the station property and the station site improved by the planting of flowering shrubs.

At Carleton Place distributing station a second 750-kv-a transformer was placed in service on November 15, 1936. The capacity of this station is now 1,500 kv-a.

At Cataragui, owing to increasing load demand, a new out-door rural station was built. The three 100-kv-a transformers which formerly served this station were replaced by three 250-kv-a transformers.

At Frontenac transformer station eight defective 44,000-volt bushings were replaced on the three 5,000-kv-a transformers and the 15,000-kv-a regulating transformer. The 44,000-volt oil breaker was overhauled.

At Lyn distributing station, due to increased load demand, the three 100-kv-a transformers were replaced by three single-phase, 250-kv-a, 44,000/4,800-volt transformers.

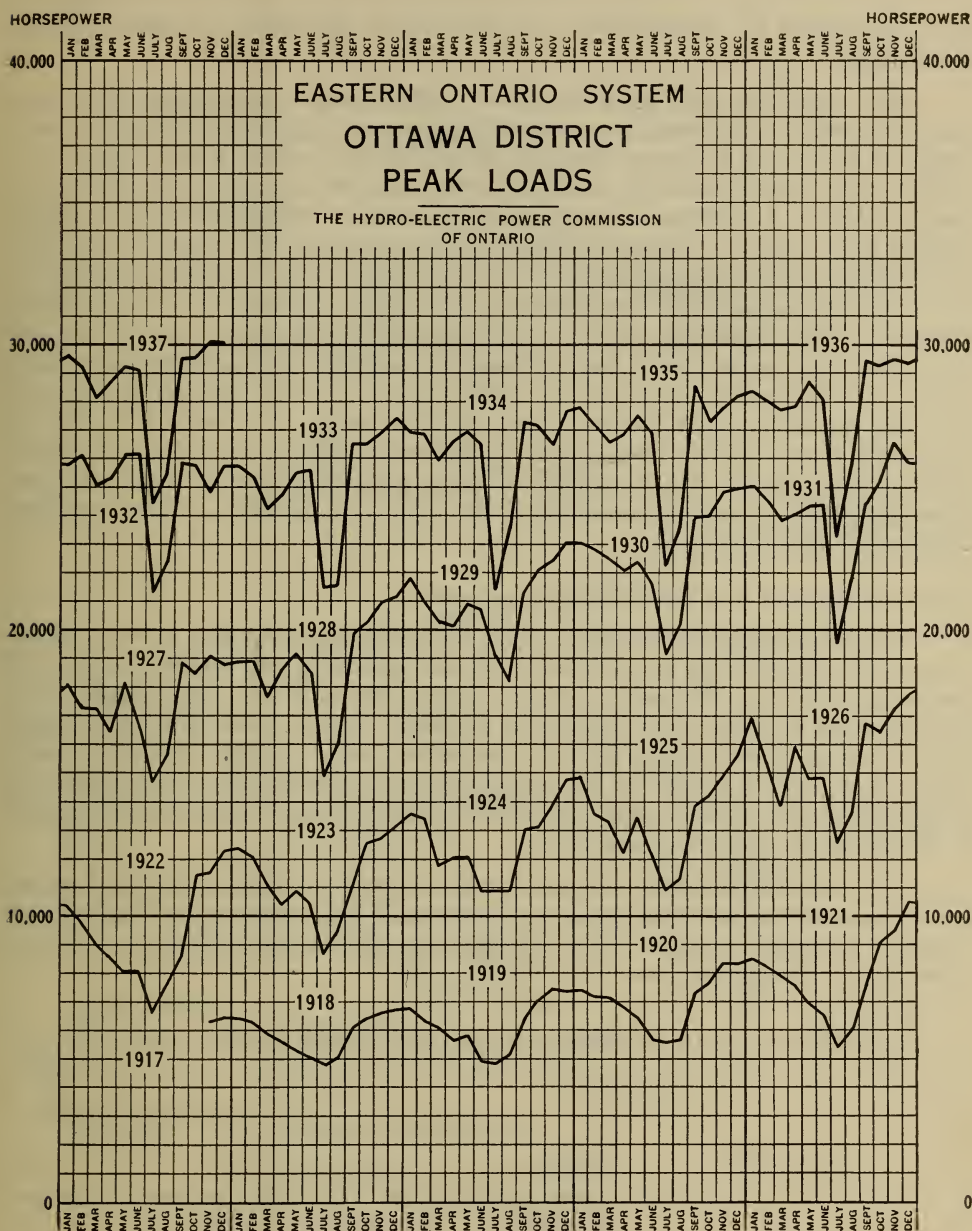
At Madoc distributing station two defective 44,000-volt roof inlet bushings were replaced. Four defective 44,000-volt disconnecting switches were replaced. The high-tension and low-tension oil breakers were overhauled.

At Martintown distributing station the tank of the 150-kv-a transformer was leaking badly and was replaced. The transformer was given a thorough overhauling at this time.

At Oshawa No. 1 distributing station a new out-door steel structure was erected and the low-tension feeders were re-arranged. The high-tension and low-tension oil breakers were all overhauled.

At Ottawa rural station a second bank of three 200-kv-a transformers was placed in service on October 24, bringing up the capacity of this station to 1,200 kv-a.

At Smiths Falls transformer station general improvements were carried out on the station property. A new culvert was installed replacing the old bridge into the station. Defective timbers were replaced on the station high-tension structures. The high-tension and low-tension oil breakers were overhauled. A number of insulators were replaced on the bus structures. The 110,000-volt



disconnecting switches were overhauled. A new 120-volt station storage battery and battery rack was installed.

At Renfrew distributing station the high-tension and low-tension oil breakers and the electrolytic lightning arresters were all overhauled. Two new sets of 6,600-volt feeder disconnecting switches were installed and defective 6,600-volt cable replaced.

At Smiths Falls distributing station a new 26,000-volt air-break switch was erected on a new pole structure on the station property. The high-tension

and low-tension oil breakers and the electrolytic lightning arresters were all overhauled.

The inspection and maintenance of high-voltage transmission lines was actively carried out during the year. 633 poles were stubbed and 64 poles were replaced due to rot at the ground line. Sand creosote collars were installed on 4,842 poles. Approximately 1,100 defective 44,000-volt pin-type insulators were replaced. A number of poles were relocated at different points on the system as a result of highway changes. Approximately 48 miles of rural line were erected. Routine maintenance work was carried out, including straightening poles, replacing defective crossarms and pins, adjusting guys, tightening bolts, etc. Tree trimming, weed cutting and underbrushing was carried out on numerous high-voltage and low-voltage line sections. For sectionalizing purposes at Cataragui and Napanee rural stations, 44,000-volt gang-operated line disconnecting switches were installed. In order to eliminate as far as possible a source of radio interference originating with the operation of single-pole, 44,000-volt, line disconnecting switches, gang-operated air-break switches were installed at six sectionalizing points on the 44,000-volt line between Brighton and Bowmanville.

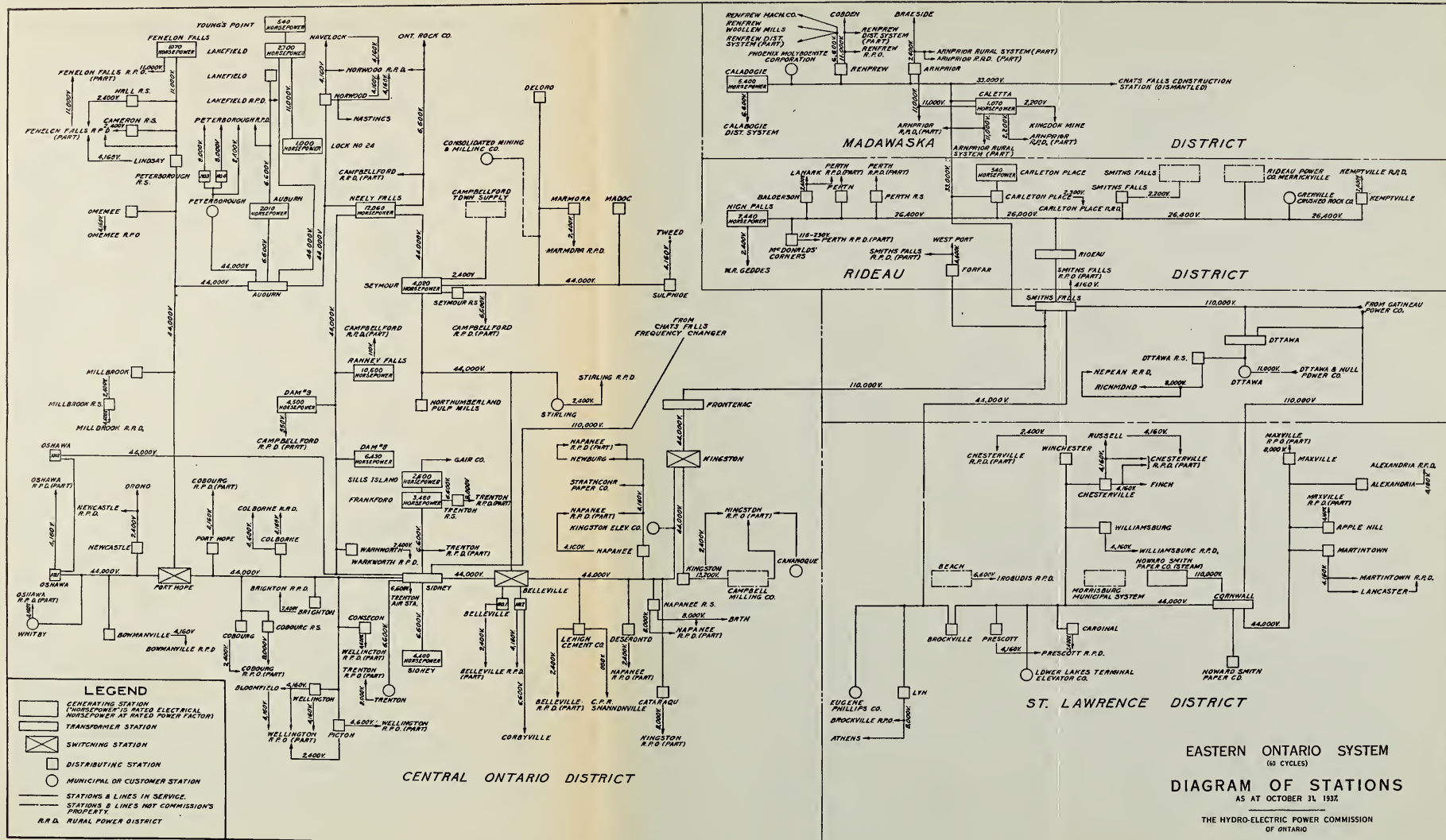
Meter Department and Repair Shops, Belleville

An extensive program of field work was carried out by the Meter department. This department is responsible for the operation and maintenance of all metering and relay equipment on the system and also for the checking into service of all new electrical equipment installed. Special tests relating to radio and telephone interference, ground conductivity and voltage conditions were made at numerous points on the system. The services of this department are available to any municipality wishing to have electrical measurements made or technical problems investigated.

The Belleville machine and meter repair shop continued to test and repair service meters for municipal and rural systems. 3,361 meters were repaired and 2,585 new meters handled. Over 300 samples of insulating oil from the field were tested during the year.

EASTERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES—1935-36-37

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Alexandria.....	207.1	205.3	195.7	9.6	.....
Apple Hill.....	31.9	36.2	35.0	1.2	.....
Athens.....	77.7	102.1	78.8	23.3	.....
Bath.....	27.8	26.8	31.0	.....	4.2
Belleville.....	4,235.0	5,092.0	5,037.0	55.0	.....
Bloomfield.....	76.5	86.6	93.8	.....	7.2
Bowmanville.....	1,765.8	1,972.3	2,188.1	.....	215.8
Brighton.....	274.0	284.2	323.0	.....	38.8
Brockville.....	2,628.6	2,991.9	3,206.3	.....	214.4
Cardinal.....	154.1	180.8	251.3	.....	70.5



EASTERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES, 1935-36-37—Concluded

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Carleton Place.....	1,288.8	1,257.3	1,406.8	.....	149.5
Chesterville.....	230.5	245.0	232.5	12.5	.....
Cobden.....	53.6	60.3	57.1	3.2	.....
Cobourg.....	1,396.8	1,423.5	1,769.4	.....	345.9
Colborne.....	133.5	148.1	148.8	.....	0.7
Deseronto.....	131.8	135.4	141.6	.....	6.2
Finch.....	53.5	59.7	63.4	.....	3.7
Hastings.....	85.9	87.0	92.5	.....	5.5
Havelock.....	117.5	146.8	155.6	.....	8.8
Kemptville.....	290.8	361.9	330.4	31.5	.....
Kingston.....	6,478.5	7,512.3	8,228.7	.....	716.4
Lakefield.....	233.7	256.0	268.1	.....	12.1
Lanark.....	74.8	82.3	84.0	.....	1.7
Lancaster.....	47.2	44.0	37.7	6.3	.....
Lindsay.....	1,913.0	2,170.0	2,172.4	.....	2.4
Madoc.....	161.0	165.4	167.1	.....	1.7
Marmora.....	93.3	101.7	113.3	.....	11.6
Martintown.....	25.3	32.8	29.2	3.6	.....
Maxville.....	87.1	83.6	91.8	.....	8.2
Millbrook.....	66.5	57.9	66.8	.....	8.9
Napanee.....	1,043.6	1,095.9	1,186.3	.....	90.4
Newburg.....	40.1	35.9	36.1	.....	0.2
Newcastle.....	109.1	109.6	155.5	.....	45.9
Norwood.....	95.2	93.2	92.5	0.7	.....
Omeme.....	128.8	137.7	123.8	13.9	.....
Orono.....	76.7	92.0	70.2	21.8	.....
Oshawa.....	12,690.2	11,391.4	14,889.7	.....	3,498.3
Ottawa.....	26,869.9	28,751.7	28,970.6	.....	218.9
Perth.....	1,254.1	1,364.0	1,428.9	.....	64.9
Peterborough.....	7,140.3	7,700.0	9,633.7	.....	1,933.7
Picton.....	864.3	925.7	984.0	.....	58.3
Port Hope.....	1,358.4	1,319.7	1,570.1	.....	250.4
Prescott.....	758.1	890.0	889.9	0.1	.....
Richmond.....	45.5	41.5	46.5	.....	5.0
Russell.....	42.4	46.9	53.1	.....	6.2
Smiths Falls.....	1,626.1	1,765.3	2,018.0	.....	252.7
Stirling.....	257.3	255.3	251.3	4.0	.....
Trenton.....	2,985.3	3,029.6	3,405.1	.....	375.5
Tweed.....	162.7	194.6	225.2	.....	30.6
Warkworth.....	63.8	70.7	67.0	3.7	.....
Wellington.....	177.4	178.4	216.7	.....	38.3
Westport.....	69.9	77.2	87.1	.....	9.9
Whitby.....	966.5	991.9	1,097.8	.....	109.9
Williamsburg.....	236.8	218.5	165.9	52.6	.....
Winchester.....	234.8	265.3	258.0	7.3	.....

EASTERN ONTARIO SYSTEM—LOADS OF NEW MUNICIPALITY

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
Frankford.....	Oct. 1, 1937	75.0	75.0	.....	.....

EASTERN ONTARIO SYSTEM—RURAL POWER DISTRICT LOADS, 1935-36-37

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Alexandria.....	33.2	35.3	52.5	.....	17.2
Arnprior.....	39.0	54.0	54.0	.....	.....
Belleville.....	347.4	391.7	444.9	.....	53.2
Bowmanville.....	112.2	114.7	133.5	.....	18.8
Brighton.....	23.3	23.3	24.7	.....	1.4
Brockville.....	325.8	340.5	472.1	.....	131.6
Campbellford.....	57.7	81.0	99.5	.....	18.5
Chesterville.....	199.1	269.3	350.5	.....	81.2
Cobourg.....	303.0	325.6	387.0	.....	61.4
Colborne.....	92.0	107.7	137.4	.....	29.7
Fenelon Falls.....	122.8	165.6	254.3	.....	88.7
Iroquois.....	453.0	502.7	536.2	.....	33.5
Kemptville.....	25.0	26.8	27.3	.....	0.5
Kingston.....	408.0	527.6	632.8	.....	105.2
Lakefield.....	47.2	62.1	64.8	.....	2.7
Marmora.....	.....	1.5	1.5	.....	.....
Martintown.....	69.4	73.3	88.7	.....	15.4
Maxville.....	170.8	197.7	230.5	.....	32.8
Millbrook.....	45.4	52.0	65.6	.....	13.6
Napanee.....	219.5	256.1	311.6	.....	55.5
Nepean.....	635.4	762.8	885.8	.....	123.0
Newcastle.....	66.9	63.4	67.2	.....	3.8
Norwood.....	24.4	22.0	38.0	.....	16.0
Omeme.....	4.8	5.0	5.0	.....	.....
Oshawa.....	821.6	903.1	1,009.0	.....	105.9
Perth.....	25.8	32.6	43.3	.....	10.7
Peterborough.....	456.0	500.8	505.5	.....	4.7
Prescott.....	138.0	134.2	158.3	.....	24.1
Renfrew.....	24.1	66.0	78.0	.....	12.0
Smiths Falls.....	176.1	234.9	267.9	.....	33.0
Stirling.....	51.7	49.6	61.0	.....	11.4
Trenton.....	238.1	107.6	138.4	.....	30.8
Warkworth.....	3.6	3.8	13.8	.....	10.0

EASTERN ONTARIO SYSTEM—NEW RURAL POWER DISTRICT LOADS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
Sulphide.....	July 1, 1937	7.7	17.3	.....	9.6

THUNDER BAY SYSTEM

The primary load on the Thunder Bay system during 1937 showed a gradual increase over the preceding year. As in 1936, the market for secondary power (used by the paper mills for the generation of steam) was great enough to use more than the remaining available generating capacity for the major portion of the time. Therefore, arrangements were in force during the whole year whereby the paper mills under control of the Abitibi Power and Paper Company were permitted to obtain a further secondary power supply from the system of the Kaministiquia Power Company (which is a subsidiary of the Abitibi Power and Paper Company), through the Commission's transformers and over the Commission's transmission circuits. This arrangement was similar to that in force for a few months of the previous year. Other customers for secondary power were restricted to some extent during peak load periods.

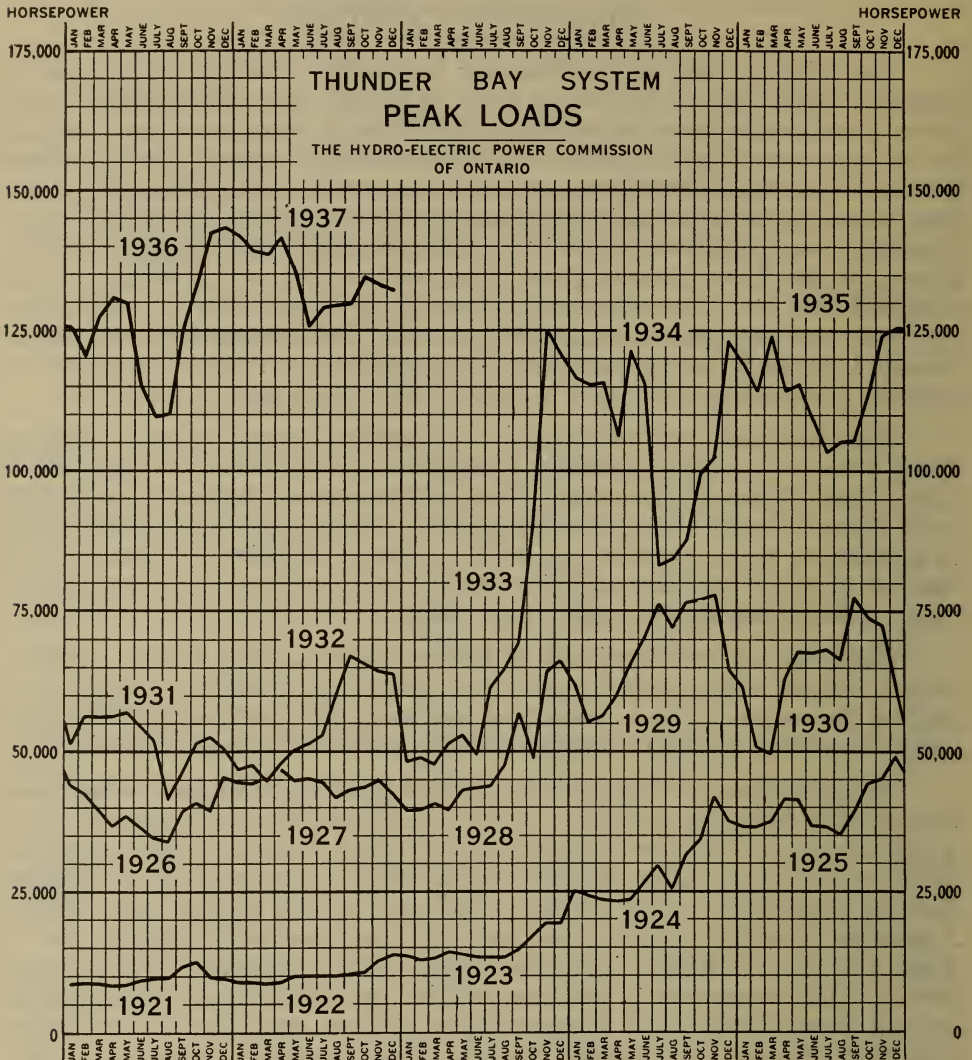
Eight new customers were added to the system during the year. These are Hard Rock Gold Mines, Bankfield Consolidated Gold Mines, Sturgeon River Gold Mines, Town of Geraldton, Town of Beardmore, Jellicoe Consolidated Gold Mines, Tombill Gold Mines and MacLeod-Cockshutt Gold Mines. Power is supplied to these customers at 44,000 volts. In addition to these, a small amount of power has been supplied to the Lake Sulphite Pulp Company for use in constructing its new mill at Red Rock.

There has been no restriction of primary power supply to any customer, and no serious interruptions to service. It has been necessary on occasions to restrict the secondary load demands of customers for short periods in order to carry the system load with satisfactory frequency and voltage regulation.

The generating and transformer stations have all functioned reliably and satisfactorily throughout the year. During the period May 16 to June 23, No. 4 generator unit at Cameron Falls generating station was out of service in order to allow the eroded areas on the turbine blades to be repaired by welding. Routine maintenance work on the other units at this station, and those at Alexander generating station, has been done as opportunity offered; that is, when the load permitted individual units being temporarily released from service. Maintenance work has been carried out on the power transformers and oil circuit breakers at the generating stations, and also at Port Arthur and Fort William transformer stations. New sensitive protection against internal faults was installed on each of the 8,000-kv-a transformers at Cameron Falls generating station, the installation being completed on April 4. A new 60-cell storage battery was placed in service at Fort William transformer station on March 6.

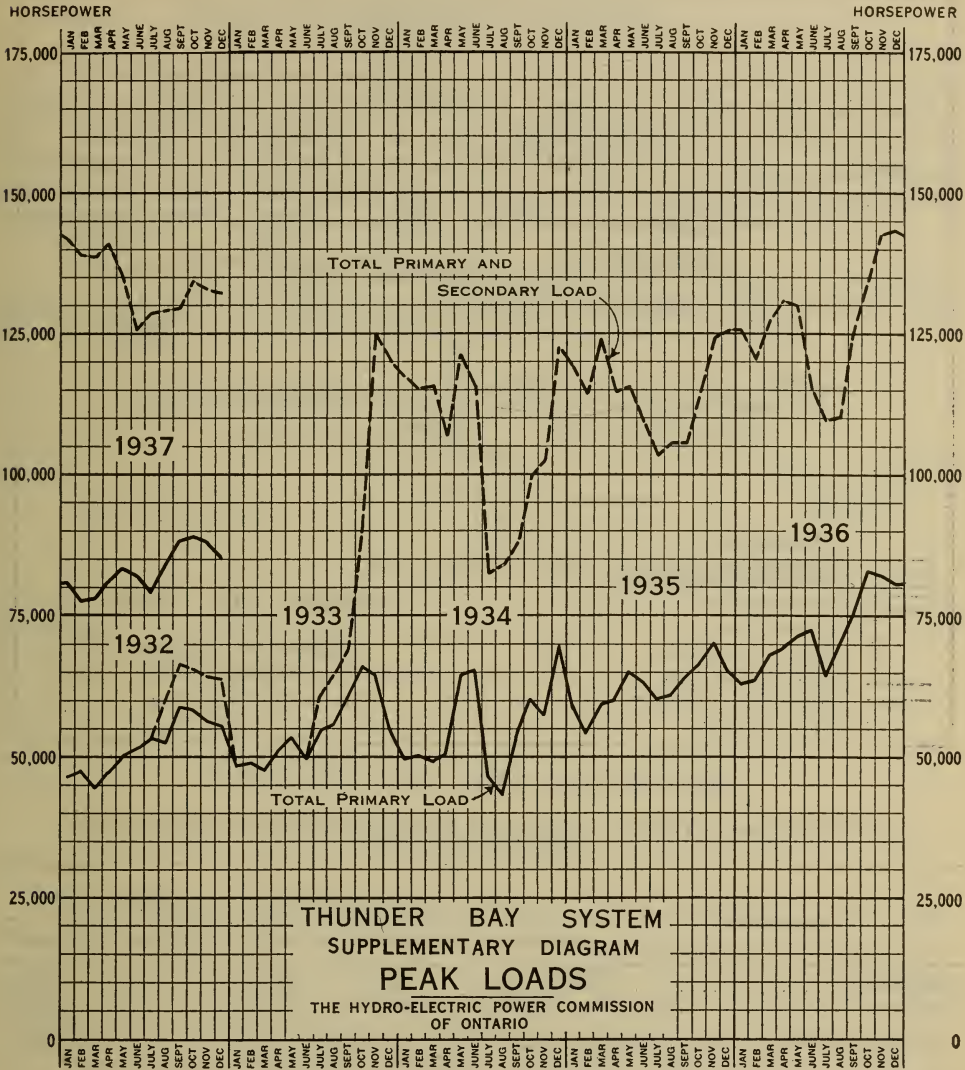
Very little trouble has been encountered with the 110,000-volt transmission lines. A number of flashovers have occurred during electrical storms, causing interruptions of short duration to one or more customers. There have been two occasions—on July 3 for 3½ minutes, and on August 8 for 1½ minutes, during electrical storms—when service to all customers has been interrupted. Special attention has again been given to the testing of insulators and the replacement of those found defective, and to the maintenance of poles and conductors.

During the early part of the year the Commission purchased the 44,000-volt lines from the Northern Empire Mines and the Little Long Lac Gold Mines.



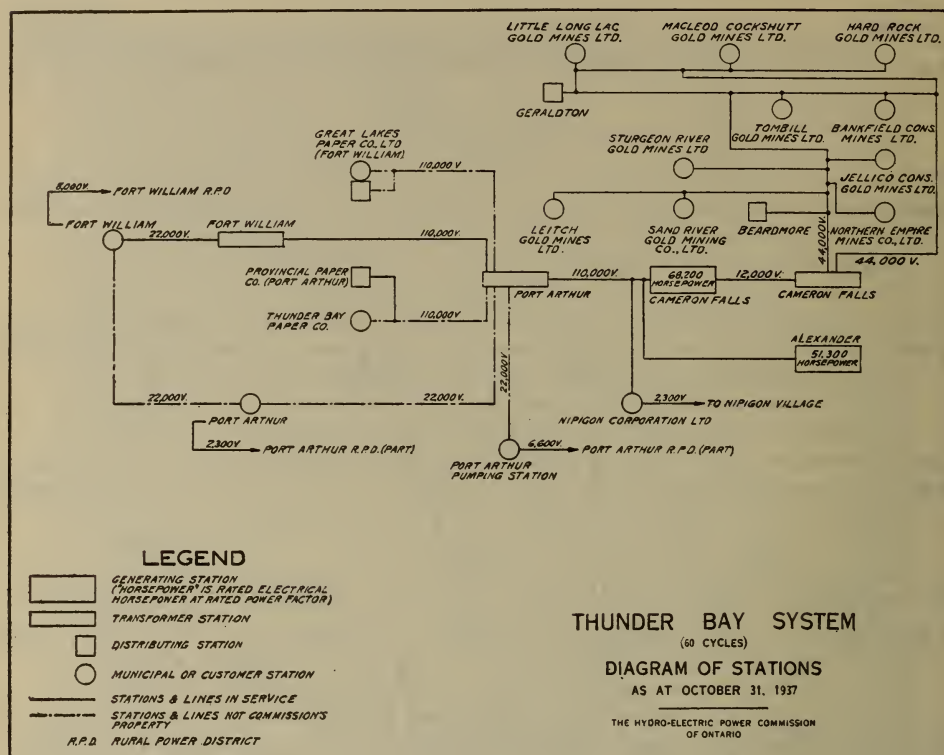
These lines have been in service since 1933 and 1934 respectively. A new line was built from Cameron Falls generating station to the Little Long Lac area. This line is constructed for 110,000-volt service, but is now being used at 44,000 volts, the section from Cameron Falls to Empire being energized on January 14, and that from Empire to Little Long Lac on March 22. There have been a number of occasions on which service to the customers supplied by these lines has been interrupted due to trees falling over the line and highway blasting operations. Further clearing of trees along the right-of-way is being carried on, and with the completion of the highway, it is hoped that better service will be obtained from these lines during the ensuing year.

The precipitation in the watershed supplying this system has been above average, 29.5 inches being recorded. The elevation of lake Nipigon on October 31 was reported as 852.14, compared with 851.3 for the same time last year.



THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES, 1935-36,-37

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Fort William.....	10,740.0	10,678.3	11,265.4	.....	587.1
Nipigon Township.....	112.5	124.6	161.07	.....	36.47
Port Arthur.....	34,396.3	42,407.2	40,964.7	1,442.5	.....



THUNDER BAY SYSTEM—LOADS OF NEW MUNICIPALITIES, 1935-36-37

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
Beardmore.....	June 12, 1937	42.9	59.0	.....	16.1
Geraldton.....	Feb. 28, 1937	199.7	345.8	.....	146.1

THUNDER BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1935-36-37

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Fort William.....	111.2	130.0	155.5	.....	25.5
Port Arthur.....	47.0	49.6	54.3	.....	4.7

MANITOULIN DISTRICT

Operation of the Manitoulin district throughout the year was satisfactory. Three total district interruptions totalling 1 hour 51 minutes were required by the Manitoulin Pulp Company to permit inspection, repair and adjustment of their generating equipment, one interruption of 1 hour 12 minutes duration was required to install Commission equipment, and four automatic interruptions totalling 61 minutes were caused by lightning disturbances.

On November 2, 1936, a new lightning arrester was installed on one phase of the outgoing line at Kagawong distributing station to replace the one which had failed and had been removed from service on October 11, 1936.

MANITOULIN RURAL POWER DISTRICT LOADS, 1935-36-37

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Manitoulin.....	113.9	138.4	136.7	1.7	.....

NORTHERN ONTARIO PROPERTIES

Nipissing District

Operation

Water storage and river flow conditions were satisfactory up until the early part of August, when rapid depletion of storage reserves commenced as a result of subnormal precipitation over the South river watershed for the previous two months. To retard this depletion a supply of power from the Crystal Falls generating station of the Sudbury district was obtained over a seven-day period in September, but this supply was discontinued in order to permit necessary rehabilitation of a section of the tie-line over which the power was being transferred. Towards the latter part of October, precipitation conditions improved and a gain in storage reserves resulted, but conditions were such at the end of the year that unless abnormal precipitation and an open winter is experienced, it will be necessary to obtain additional power from Crystal Falls to supplement that obtainable from the Nipissing district plants, before the spring break-up in 1938.

Operation of the district throughout the year was in general quite satisfactory. North Bay and Callander customers experienced five service interruptions, totalling thirty minutes, as a result of lightning disturbances on the 22,000-volt lines; service to Powassan was interrupted once for one minute from the same cause. All other service interruptions were prearranged and were for the purpose of permitting maintenance of equipment.

On July 20, a new rural station at the easterly limits of North Bay consisting of three 100-kv-a transformers and associated switching equipment was placed in service. The North Bay distribution system voltage is stepped up at this station from 2,400 to 8,000 for transmission at the latter voltage throughout the rural district in the township of Ferris. This rural district had previously been served at 2,400 volts direct from the North Bay distribution system, but poor voltage regulation due to increased rural load made the change to a higher voltage level necessary.

Maintenance

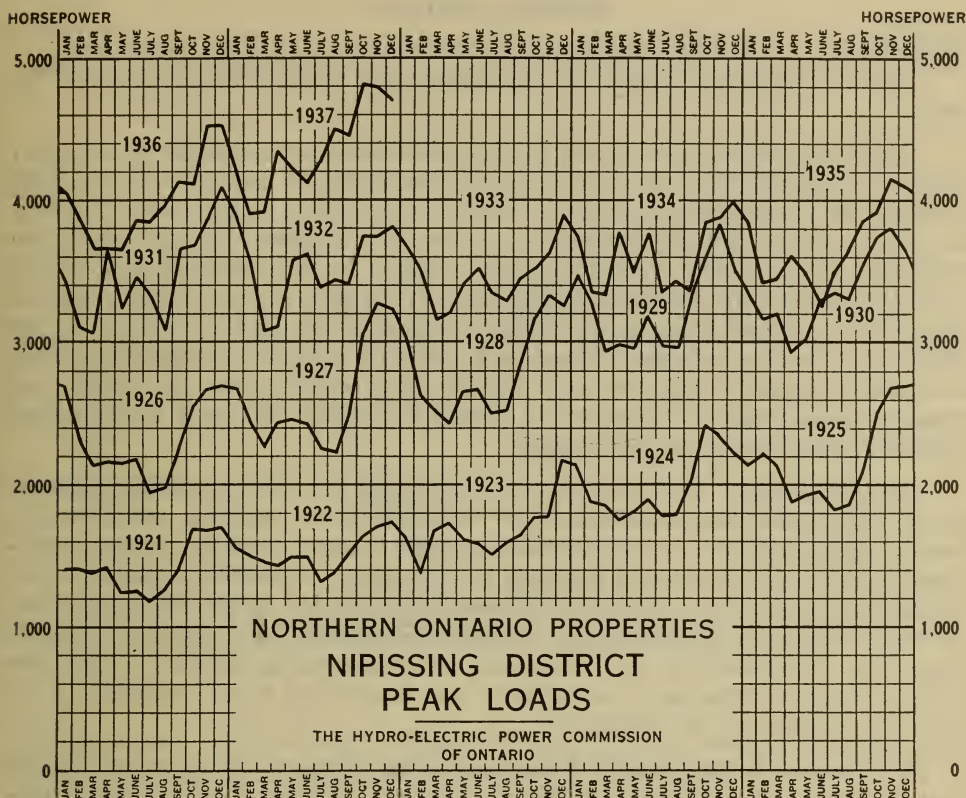
At Nipissing generating station the regular tests and inspections were carried out on the electrical, mechanical and hydraulic equipment, and the necessary minor adjustments and repairs made. The pothead on the generator end of the 2,200-volt cable from No. 1 generator failed and was replaced. Two insulators on the 22,000-volt switching structure and three bushings on the 22,000-volt line breaker were shattered by lightning and replaced. The power-house floor was painted. The top surface of the wood-stave pipe was brush coated with solignum, one hundred steel plates with tarred felt pads were placed over leaky butt joints, six benches were renewed and 42 moved to permit of treatment of decay of the pipe under the benches. Some grading was done on the pipe line sub-grade and the ditches cleaned out. The necessary gravelling of the roads on the property was done. The railing on the road bridge over the pipe line was renewed.

At Bingham Chute generating station the regular tests and inspections were carried out, during which the No. 1 positive exciter cable and No. 2 negative field cable were found defective and were replaced. Three coils in No. 1 generator failed and were cut out pending a decision on rewinding the machine. The 22,000-volt lightning arrester was revarnished and the power-house floor painted. The wood-stave pipe line was brush-coated with solignum, the ditches were cleaned out and all vegetation removed from pipe line grade. About 22 cubic yards of earth were placed on the dam between head block and sluices, and 8 cubic yards of rock removed from the walls of the pipe line cut. A new tool house was built on the dam.

At Elliott Chute generating station the regular tests and inspections were carried out on plant structures and equipment. The storage battery and charger were overhauled and reconditioned. The 22,000-volt lightning arrester was varnished and the power-house floor painted. The bands on the wood-stave pipe were tightened and the exterior of the pipe brush-coated with solignum and the grades cleaned of weeds. About 40 cubic yards of gravel and 16 cubic yards of rip-rap were placed on the dam and the drainage wells cleaned out. All weeds were cut on the property as required and about 1,900 square feet of site near dam was graded, levelled and cultivated. The construction, cookery and bunk-house were sold and removed.

The regular tests and inspections of structures and equipment were carried out and everything found in good condition. Minor repairs were made where required and necessary painting done.

Thirty-eight insulators, which were broken by stones and rifle bullets, were replaced. Tests revealed 226 defective insulators on line sections FZ52x3, FZ3x61 and FZ61x4; these will be replaced as soon as load conditions permit



these lines to be taken out of service for that purpose. Forty-eight poles were stubbed and seventeen equipped with sand-cresote collars on the 22,000-volt lines. Sixteen poles, twelve guys and six crossarms were renewed on the 2,200-volt line from Nipissing generating station to Nipissing village.

The double-circuit 22,000-volt line from Crystal Falls to Sturgeon Falls junction was reconditioned after purchase from the Abitibi Power and Paper Company, and an inventory taken of the line.

On the Sturgeon Falls Junction-North Bay line certain underbrushing was done, three head guys and one anchor were installed, and four poles reset. Underbrushing and tree trimming were done on lines between Bingham Chute junction and North Bay, and four poles and one guy stub replaced.

At Braie Lake dam rock-filled cribs were erected on each side of the sluiceway upstream. Six new stop logs were provided at Clear and Surprise dams. At Craig Lake dam about 182 cubic yards of rock were placed on the downstream side and at Sausage dam 15 cubic yards of gravel were placed on the upstream side. The necessary work was done on the roads into the storage dams, nine culverts being replaced, 260 feet of corduroy road rebuilt and some hills cut down.

The Gurley gauge at Gough's Bridge was removed to a new location downstream from the Nipissing generating station.

Sudbury District

Operation

Water storage and river flow conditions were satisfactory throughout the year.

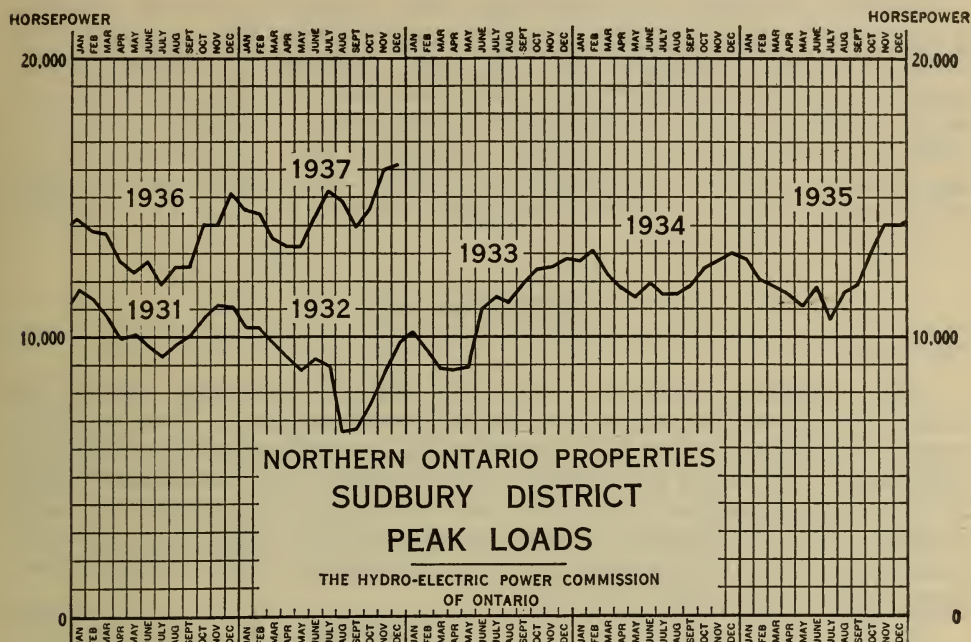
Operation of the district was in general satisfactory throughout the year. Failure of 22,000-volt oil circuit-breaker bushings in Sudbury distributing station, due to lightning, resulted in a short interruption of service to Sudbury on two occasions. On September 11 trouble on a 22,000-volt line, which developed during a severe electrical storm, resulted in an interruption of service to Sudbury and Capreol for approximately five hours. On numerous occasions during the summer blasting on highway construction in the vicinity of the 22,000-volt tie-line between Stinson and Coniston generating stations made it advisable to remove this line from service. The resulting loss of capacity on these occasions made it necessary to curtail the supply of power to the International Nickel Company at Coniston.

As the Sudbury district load trend indicated that the available capacity at the three generating stations on the Wanapitei river could be insufficient to handle satisfactorily the 1937-38 winter peak loads, a new wood-pole transmission line was constructed between the Coniston generating station on the Wanapitei river and the Crystal Falls generating station on the Sturgeon river, so that a supply of power from the latter station would be available to supplement that generated by the Wanapitei river generating stations. This new line, although still partially incomplete, was tested and found satisfactory for emergency operation on August 28.

On August 5 the Crystal Falls generating station was acquired by the Commission from the Abitibi Power and Paper Company, and as most maintenance work at this station had been deferred for several years, a staff was immediately placed at work in the station to undertake such rehabilitation as was necessary to place all equipment in condition satisfactory for the operation of the station as a unit of the Sudbury district.

Maintenance

At Coniston generating station the regular tests and inspections were carried out and the necessary repairs and adjustments made. On No. 1 turbine, a broken gate was welded and a worn gate-link bolt replaced. On No. 2 turbine a worn wrist pin and a broken drain-valve operating cable were replaced. A larger pulley was installed on the governor oil-pump drive, and the oil pump adjusted; adjustments were made to the governor head drive and a new set of bevel gears ordered. On No. 3 turbine the lignum vitae bearing was renewed and the upstream bearing adjusted; adjustments were made to the governor to overcome faulty action. On No. 3 generator chattering and vibration developed in a section of the lamination due to slack in the pressure plate; the necessary repairs were made and the unit is under close observation for a recurrence of the trouble. The No. 3 motor-driven exciter was overhauled and fitted with new brushes. The voltage regulator was cleaned and adjusted and one 22,000-volt oil breaker was overhauled. The roofs of the penstock building, transformer house, garage, warehouse and summer kitchen of boarding house were painted with Liquigum and repaired where necessary. The headgates and structure, the wood sheathing of the forebay walls and dam piers and outdoor switching



structure were painted with solignum. The racks at forebay entrance were rebuilt and the boarding-house roof repaired. A small office was built in the transformer building.

On September 11 an excessively heavy rain—over four inches precipitation—destroyed two culverts and washed out several sections of the road from the highway to the plant, and did some damage to roads, etc., in the colony. The culverts were replaced with larger ones and other necessary repairs made.

At McVittie generating station the regular tests and inspections were made. New lignum vitae bearings and wrist pins were installed in each of the main turbines and a new lignum vitae bearing in the exciter turbine. A broken gear on No. 2 governor oil pump was repaired by welding and returned to service. A ground-detector device was installed on the d.c. bus. A leak developed under the east wing of the back-channel dam. The water in the forebay was lowered, the leak dug out, sheet piling installed, supported by rock fill on downstream side and puddled with clay on the up-stream side.

At Stinson generating station the regular tests and inspections were made. The repairs and rehabilitation following the fire of September 10, 1936, were completed, and as these comprised a complete overhaul of structures and equipment, practically no maintenance other than a few minor repairs was required.

Following the purchase of the Crystal Falls generating station, a thorough inspection was made and a program of overhaul and maintenance initiated to bring this property up to standard. When considered necessary, immediate repairs or alterations were made, but it is intended to bring the plant up to standard during the coming year.

Routine patrolling and maintenance were carried out during the year. A number of insulators broken by stones and rifle bullet were replaced. The Stinson-Coniston 22,000-volt line was badly damaged by blasting during highway construction. Temporary repairs were made as the work progressed but the damage was so severe that it has been found necessary to restring more than a mile of the line and replace a number of poles and numerous insulators, pins, crossarms, etc. Highway improvements necessitated the relocation of a number of poles on the Wanapitei lake telephone line near Falconbridge.

Abitibi District

Operation

The available capacity of the Abitibi Canyon generating station was limited throughout the year by the installed power transformer capacity which permitted the simultaneous use of only three of the five generators. As a result of performance tests which were conducted on the generators, the nominal rating of 55,000 horsepower each, which has been used in previous reports, has been changed to 60,000 horsepower, giving the plant a present total rating of 180,000 horsepower. Normal procedure throughout the year has been to operate continuously with three units in service.

Stream flow conditions were satisfactory throughout the year for primary load purposes, but during January, February and the latter part of December, the total demand for secondary power for steam generation could not be met at times because of lack of sufficient river flow.

Operation of the Abitibi Canyon generating station was satisfactory throughout the year.

There were sixteen single-circuit and ten double-circuit automatic outages of the high-tension line between Abitibi Canyon and Copper Cliff during the year, of which all double-circuit outages and eleven single-circuit outages were due to electrical storms. Of the remaining single-circuit outages, two were due to causes external to the lines and three to unknown causes.

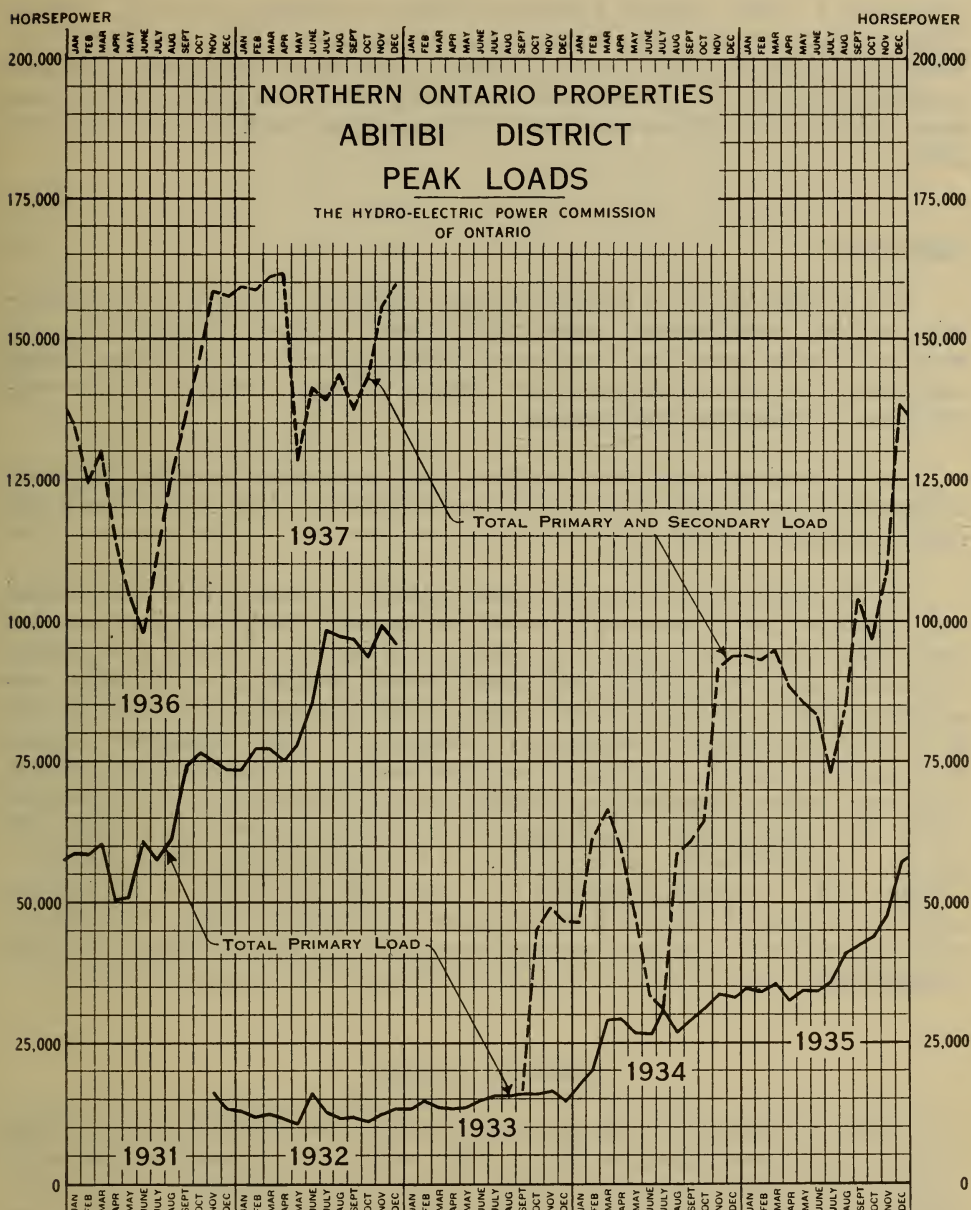
There were thirteen single-circuit automatic outages on the Abitibi Canyon to Kirkland Lake, Matachewan and Larder Lake high-tension lines, of which six were due to electrical storms, three to severe winds, one to a falling tree, one to a line defect and two to causes external to the lines.

The above outages were all of short duration except in one instance when failure of a high-tension line switch at Kirkland Lake transformer station, on January 22, while switching to clear a defective line, prolonged an interruption to Kirkland Lake customers to a total of two hours and one minute.

On January 3, 1937, a newly-completed section of single-circuit 132,000-volt wood-pole line between Tisdale junction (about six miles north of Timmins) and Pamour transformer station was placed in service.

All transformer stations operated satisfactorily throughout the year.

On January 3 a new 4,500-kv-a outdoor type, 132,000/27,200-volt station at Pamour was placed in service, and on January 15 an additional 1,500-kv-a,



13,200/27,200-volt transformer for use as a spare at either Pamour or Timmins transformer stations was made available for service.

On December 22, 1936, a pole-type 75-kv-a distributing station serving domestic consumers of the King Kirkland townsite was placed in service.

Low-tension feeders constructed to serve new customers were placed in service as follows:—in the Timmins area—Porcupine Lake Gold Mines on

November 1, 1936, Moneta Porcupine Mines on January 19, 1937, Delnite Mines on February 28, 1938, Buffalo Ankerite on July 26, 1937, and Mace Gold Mines on August 20, 1937; in the Kirkland Lake area—Continental Kirkland on April 25, 1937, and Golden Gate on June 5, 1937; and in the Larder Lake area—Kir-Vit Gold Mines on July 5, 1937, and Kerr Addison on October 29, 1937.

Maintenance

The regular tests and inspections were carried out at the Canyon generating station, maintenance consisting of minor repairs and adjustments. A washout of some considerable proportions on the east side of Eleanor Creek and about one mile north-east of the Canyon generating station was investigated and a measuring weir installed.

At the various transformer stations the maintenance consisted of minor adjustments and repairs to structures and equipment. The regular tests and inspections were carried out.

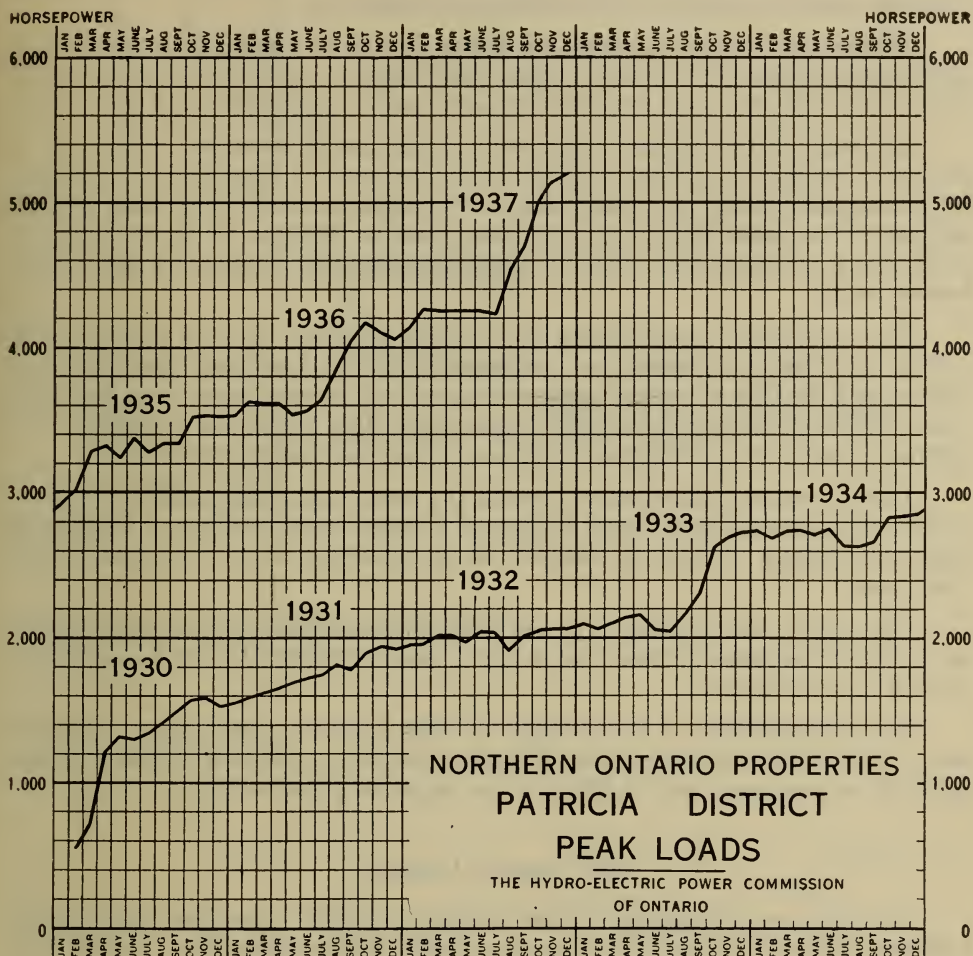
In the transmission lines the regular patrols and inspections were carried out. Damaged insulators were replaced, the necessary brush cutting done and ground line treatment applied to a number of poles. A number of poles broken by motor cars were replaced and others moved on account of highway construction. On the Iroquois Falls-Kirkland Lake line, the ground wire on the first circuit broke due to vibration on January 27, 1937. Temporary repairs were made at once and during the summer pole-top extensions were installed, the ground wire resagged at lower tension and festoons installed. On the second circuit the stringing tensions of the ground wire were lower, consequently the line was equipped with festoons only. On the telephone line from Hunta to Copper Cliff, the spruce poles used on a large part of the line had decayed so badly at the ground line that it was necessary to cut off and reset or replace the majority of them. This work was not completed but will be continued in the coming year.

Espanola District

Service to the sole customer on this district, the McMillan Gold Mines, Limited, was discontinued on May 1, 1937, when the company abandoned all mining and milling operations. Prior to that date operation of the Commission's 33,000-volt line between Espanola generating station and the customer's property was entirely satisfactory.

Patricia District

The generating and transformer station at Ear Falls on the English river has operated satisfactorily throughout the year. The load on the system has been higher than in 1936, the average monthly energy generated being 18.1 per cent



greater, and the average monthly peak 17.5 per cent greater than in the previous year. The maximum yearly 20 minute peak shows an increase of 19.9 per cent over last year.

Two new customers were added to the system during the year. The Gold Eagle Gold Mines station was made alive on January 26, power being supplied over a short section of 44,000-volt line tapped off the line to McKenzie Red Lake Gold Mines. The mill at Gold Eagle Gold Mines commenced operation on October 13. Power was supplied on July 21 to Madsen Red Lake Gold Mines over a 44,000-volt transmission line about six miles in length, which is connected to the main line near the Howey Gold Mines. This power has been used for mining and development purposes only.

An additional generator rated at 4,500-kv-a with associated auxiliaries was placed in service at Ear Falls generating station on June 28. Another trans-

former bank, consisting of three 1,500-kv-a units with necessary connections, was also placed in service at this station on August 15.

Subsequent to No. 2 generator being placed in operation at Ear Falls generating station, No. 1 unit, which had been in continuous service since December, 1929, was shut down and repairs made to the turbine and draft tube.

On January 18, failure of the belt driving the pilot exciter of the No. 1 generator resulted in an interruption to customers of 1 hour and 18 minutes. By arrangement with the customers, service was interrupted on June 20 and August 15 for about four hours each time, and on October 15 for 55 minutes, all for work in connection with the installation of No. 2 generator and transformer bank.

The 44,000-volt transmission line, which is owned by the Howey Gold Mines, Limited, has functioned satisfactorily, and has been operated and maintained for this company under the same cost arrangement as in previous years. The sections of 44,000-volt transmission line which are owned by the various other mining companies have also given satisfactory service.

There were no interruptions during the year which can be directly attributed to the transmission lines. Failure of a transformer bushing at McKenzie Red Lake Mines on May 3 resulted in an interruption of 2 minutes to all customers.

The flow in the English river has been regulated and controlled by means of the Lac Seul conservation dam at Ear Falls as required by the Lake-of-the-Woods Control Board.

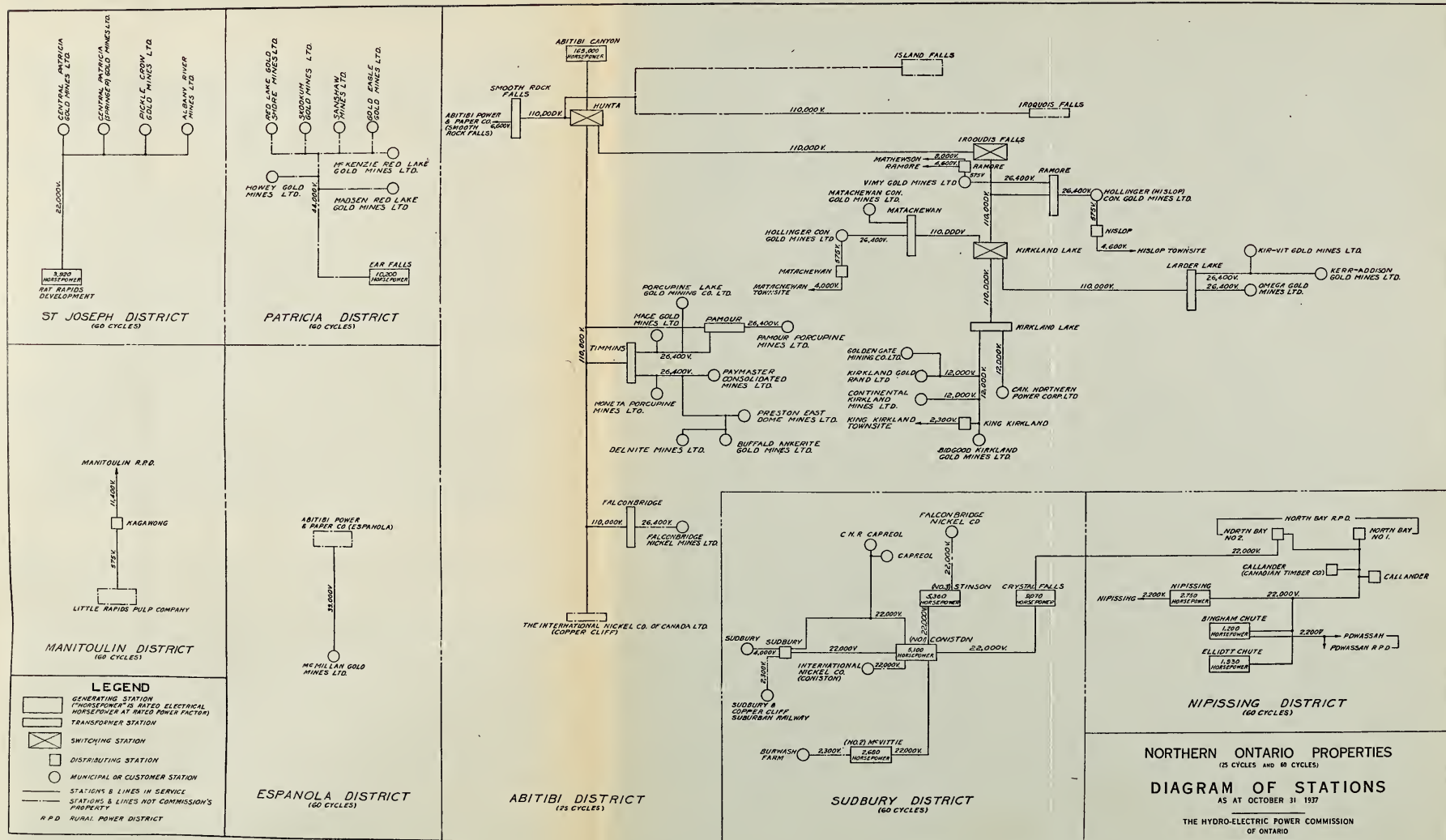
The precipitation in the vicinity of Ear Falls has been below average, about 20.6 inches being recorded. The elevation of Lac Seul on October 31 was 1,170.65 as compared with 1,169.0 at the same date last year.

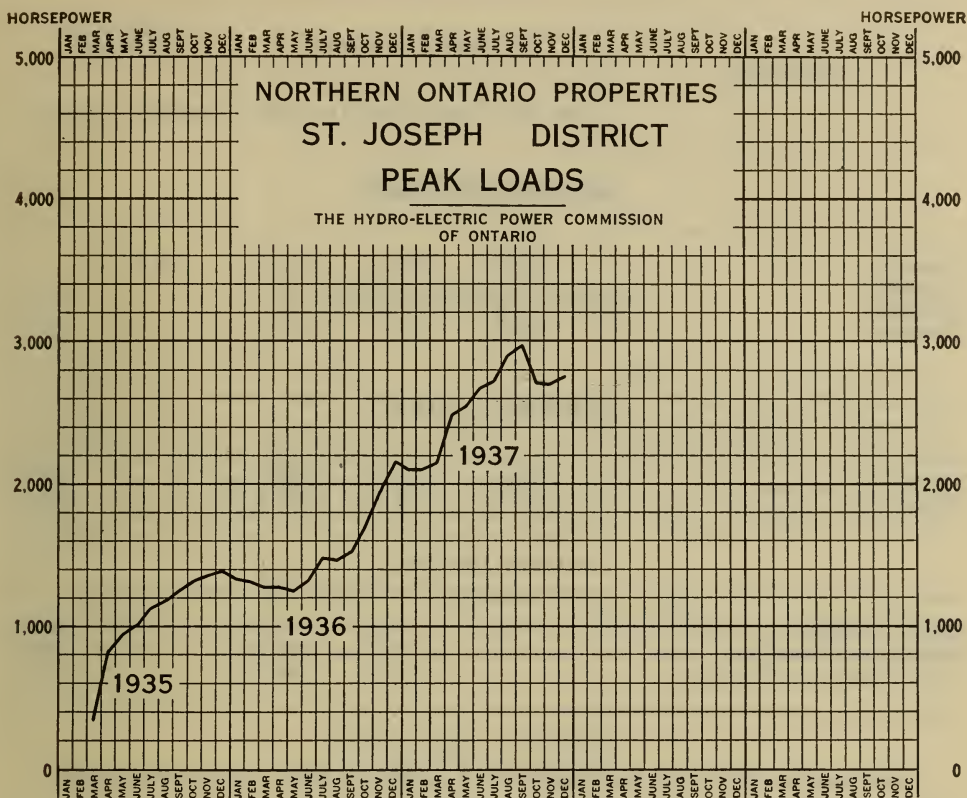
St. Joseph District

The load on this system shows a large increase. However, comparisons between 1937 and the previous year should take into consideration the fact that the second generator was placed in service on October 8, 1936, increasing the available capacity. The average monthly energy generated was 69.6 per cent greater, and the average monthly peak was 76.4 per cent greater than in the previous year. The maximum yearly 20-minute peak shows an increase of 74.4 per cent over last year.

One new customer was added to the system during the year, the Albany River Gold Mines station being made alive on December 5, 1936. This station is supplied over a short section of 22,000-volt transmission line from Pickle Crow Gold Mines. Power was used for mining and development work only. A second 750-kv-a transformer bank was installed at Pickle Crow Gold Mines in February, and in April an extension to this company's mill was placed in service.

All electrical and hydraulic equipment has functioned satisfactorily during the year. By arrangement with the customers, No. 1 and No. 2 generators and associated equipment were taken out of service in turn during the period September 5 to 7 for inspection and general maintenance. The load on the





system was restricted to the capacity of the respective generators during this period.

The 22,000-volt single-circuit transmission line between the generating station and the mining customers has given very good service throughout the year. There were six outages of this circuit due to lightning, but no permanent damage resulted, and service over the line was immediately resumed. On two occasions No. 2 generator tripped off the system as a result of guy wires being broken and coming into contact with the power conductor. The line has been carefully inspected, poles straightened, guys tightened, and trees cut down where necessary along the right-of-way. Sand creosote collars were installed on 24 poles, and 105 pole butts were treated by the "Osmose" process. New telephone crossarms were installed on alternate poles in order to increase the clearance between the telephone conductors. This has largely eliminated the troubles which were formerly experienced with this communication circuit.

The precipitation in the vicinity of Rat Rapids was relatively high this year, approximately 24.5 inches being recorded. The elevation of lake St. Joseph on October 31 was 1,226.43 as compared with 1,225.42 for the same date last year.

NORTHERN ONTARIO PROPERTIES—LOADS OF MUNICIPALITIES, 1935-36-37

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase

NIPISSING DISTRICT

Callander.....	200.7	202.7	118.5	84.2	.....
Nipissing.....	3.0	3.0	3.0	.....	.....
North Bay.....	3,215.1	3,297.3	3,724.5	.....	427.2
Powassan.....	120.4	134.1	155.5	.....	21.4

SUDBURY DISTRICT

Capreol.....	132.0	155.5	162.2	.....	6.7
Sudbury.....	4,505.3	5,764.1	6,427.6	.....	663.5

ABITIBI DISTRICT

Hislop Township.....	.....	8.0	12.5	.....	4.5
Matachewan Township.....	.....	78.1	108.5	.....	30.4
Ramore-Matheson Township.....	.....	65.5	84.7	.....	19.2

NORTHERN ONTARIO PROPERTIES—LOADS OF NEW MUNICIPALITIES

ABITIBI DISTRICT

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
King Kirkland (Townsite).....	Dec. 20, 1936	13.4	24.2	.....	10.8

NORTHERN ONTARIO PROPERTIES—LOADS OF RURAL POWER DISTRICTS,
1935-36-37

NIPISSING DISTRICT

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
North Bay.....	72.0	117.6	164.2	.....	46.6
Powassan.....	3.25	9.0	9.25	.....	0.25

SECTION III

MUNICIPAL WORK

THE Commission acts in an advisory capacity to the municipalities with which it has contracts, and assists the municipal officials to purchase, construct or extend distribution systems. As provided under *The Power Commission Act*, all rate adjustments are approved by the Commission, therefore, a study of the operating conditions of all utilities is made annually and adjustments recommended.

In rural power districts, the Commission on behalf of the township corporations operates the rural power systems, and distributes electrical energy to the customers of the respective corporations in all such rural power districts.

NIAGARA SYSTEM

During the year a contract was entered into with the Ottawa Valley Power Company for a supply of 96,000 horsepower for the Niagara system. The aggregate average load supplied to urban municipalities and rural power districts on this system during the year 1937, increased substantially.

The municipal load supplied showed an increase in 149 municipalities, a small decrease in 16 municipalities and in one municipality no change.

In the rural power districts 86 showed an increase in load.

Engineering Assistance to Municipalities

General engineering assistance was given to practically all municipalities in the Niagara system respecting the operation and management of their local Hydro utilities.

Certain municipalities received special engineering advice and assistance, which are more fully referred to below:

Ancaster Township—A by-law defining the boundaries of the area in which the Ancaster Township Hydro-Electric System would operate was passed and approved by the Commission. Some customers now served from the rural system will be transferred to the Township and a few being served over long extensions will be taken into the rural. The change will result in more economical

operation for both systems. Arrangements are being made to change over to 25-cycle supply, those consumers who are receiving 66-2/3-cycle service.

Beamsville—Hydro by-laws were passed authorizing the purchase of the existing 66-2/3-cycle system from the Commission. The ownership was transferred on May 10, 1937. Beamsville is now one of the co-operating municipalities on the Niagara system.

Brampton—The pole lines on the main streets are being moved to lanes and private property in the rear. The greater part of the lines were erected in their new location at the end of the year.

Caledonia—Arrangements for changing the system from 2,200- to 4,000-volt operation have been completed. The change will be made early next year.

Clinton—An ornamental street-lighting system, comprising thirty-one standards equipped with 300-watt units, was installed in the business section of the town and all poles removed from the main street. In conjunction with this work, distribution circuits were re-located and rebuilt in order to give service from the rear of the buildings.

Dashwood—The distribution system was changed and the voltage supply raised from 4,000 to 8,000 volts. This was accomplished by using existing 2,300-volt transformers in pairs, connecting the primary in series and the secondary in parallel.

Forest Hill—Arrangements are being made to separate the local distribution system from that of York Township and for a power supply in part from the Toronto Hydro-Electric System, with the remainder from a new transformer station to be erected for the municipality.

Galt—The Commission, during the year, built a new pole line from Preston to Galt city limits, following a separate route.

The Galt Public Utilities Commission rebuilt some of its lines and as a result there is a complete separation of the two circuits for the entire distance. Larger conductor was installed on the new circuit. During 1938 the existing circuit will be rebuilt with wider spacing and larger conductor.

Goderich—The lighting of the commercial section, which is situated around the central park, was improved. Sixteen modern, two-light, ornamental standards equipped with two 300-watt lamps and eight one-light standards equipped with 500-watt lamps, were installed. These replaced units of an older type which will be moved to adjacent streets.

Kitchener—A third substation was constructed in the south ward. This is a section of the city which not only has important industries at the present time but also is the area that has been allotted for industrial building. A 13,200-volt overhead line was constructed by the local Commission from the high-tension station to the new substation.

The underground 13,200-volt cable which connects the Commission's high-tension station with Kitchener's No. 1 substation was duplicated.

Leamington—In order to supply increased demand for power in a manufacturing plant, the consumer constructed a 150-kv-a addition to its substation.

This substation had a capacity of 750 kv-a and transforms power from 26,400 volts to 4,000 volts for distribution throughout the plant.

London—Extensive changes were made in the distribution system. Street lighting regulators and other equipment were placed in Cabell Street station. Four 500 kv-a, 13,200/575-volt, three-phase transformers were removed from Horton Street station and placed adjacent to factory sites throughout the city.

Quite a large section of the city was changed from series to multiple street lighting during the year.

Merritton—A new substation on Clarke street was completed to serve heavy industrial loads in the immediate vicinity.

Milton—Pole lines have been erected in the rear of properties on the business portion of Main street to supply these properties, while the original line on the street has been replaced by an ornamental street-lighting system.

Mitchell—In co-operation with the Bell Telephone Company, all poles are being removed from two blocks on the main street in the business section. This necessitated the construction of lines at the rear of the properties.

Twenty-six ornamental street-lighting standards, equipped with 300-watt multiple lamps and the necessary underground cable and control equipment, were installed. This greatly improved the appearance of the commercial section of the street.

Rodney—To improve the lighting and appearance of its main street, estimates were prepared and plans submitted for an ornamental street-lighting system, providing for the removing of all poles and wires and placing them in the rear of the buildings. It is expected that this work will be undertaken early in the coming year.

St. Catharines—A new 12,000-volt line was constructed near the west boundary to complete a ring main and supply additional power to customers on Carlton street.

Seaforth—Ornamental street-lighting standards were installed for two blocks on the west side of the main street. The east side will be similarly treated during 1938.

Stratford—Transformers for supplying power to the City waterworks-pumping plant were purchased.

At the present time all local lines leave the municipal station overhead. During the year seven manholes and approximately 1,200 feet of underground duct system were constructed. Cable will be installed in 1938. When this is completed all poles adjacent to the municipal station will be removed.

Swansea—On October 9, 1937, the Hydro-Electric System in Swansea was taken over by the municipality and severed from the York Township system.

Tillsonburg—Due to increased load it was found necessary to increase the municipal station transformer capacity from three 250-kv-a to three

500-kv-a transformers. These are being placed outside the building. Other modernizing changes are being made in substation equipment to provide better and more efficient service.

Welland—Plans for additional station capacity have been prepared to provide power for industrial consumers.

Weston—The Weston Public Utilities Commission is erecting an outdoor 13,200/550-volt station at the plant of the Canada Cycle and Motor Company.

Windsor—In order to supply increased demand for power in a manufacturing plant, the Windsor Utilities Commission installed additional capacity in one of its substations. Arrangements were made to purchase from The Hydro-Electric Power Commission of Ontario the 26,400-volt lines within the city, as well as the substations of the old town of Sandwich and the city of East Windsor. Approval was obtained to construct 26,400-volt tie lines between these two aforementioned substations.

Woodstock—On account of the great increase in commercial lighting on the north side of Dundas street, in the business section of the city, it was found necessary to increase the transformer capacity and secondary for this section. To minimize interruptions to service and fire hazards, underground primary was installed.

Zurich—The distribution system was changed and the voltage supply raised from 4,000 to 8,000 volts. This was accomplished by using existing 2,300-volt transformers in pairs, connecting the primary in series and the secondary in parallel.

GEORGIAN BAY SYSTEM

Due to extensive load growth on the Georgian Bay system in recent years, with the total power demand last year close to the limit of the transmission and generating equipment capacity, several major changes were found necessary and undertaken during the year in the nature of rearrangement of transmission circuits and the construction of an additional power development. All of these were required to handle adequately the load requirements of the various municipalities and rural power districts. A new auto-transformer station was constructed at Fergusonvale, and the auto-transformer station at the Eugenia development increased in capacity. A new 38,000-volt transmission line was constructed and placed in operation between Waubaushene and Fergusonvale, and the voltage of the transmission line between Fergusonvale and the Eugenia development changed from 22,000 volts to 38,000 volts to provide for operating all tie transmission lines between the various generating plants at the higher voltage. Construction work was also started on a new 10,000-horsepower development at Ragged Rapids on the Musquash river and it is expected that this plant will be completed and placed in operation during 1938. The transmission lines for tying this new generating plant into the system transmission network at Waubaushene were arranged for, with construction deferred to coincide with the date on which the generating plant will be placed under load.

The highest peak recorded for the Georgian Bay system was established on August 10, and amounted to 32,755 horsepower. The total average load sold

for the year amounted to 27,986 horsepower, an increase of 1,682 horsepower or 6.4 per cent over the previous year. Increased average loads were recorded in thirty-eight municipalities, out of a total of fifty-nine, and in thirty-nine rural power districts out of a total of forty-eight.

Assistance and general engineering advice was given to all of the fifty-nine municipalities comprising the Georgian Bay system in connection with the operation of their local distribution systems.

Special engineering advice and assistance was given to the following municipalities, chiefly with respect to the matters referred to:

Coldwater—The distribution system was changed from 2,200 to 4,000 volts, with a material improvement in regulation.

Gravenhurst—Plans are being prepared for the construction of a new municipal substation adjacent to the present office building and the conversion of the distribution system from two to three phase.

Huntsville—Extensive rehabilitation of the distribution system was carried out. All poles and wires were removed from the main street and ornamental street-lighting standards were installed in the business section.

Tara—The removal of all poles in the business section of the municipality and the installation of an ornamental street-lighting system was completed early in the year.

Waubushene—The substation capacity was increased from 75 to 150 kv-a. The distribution system was changed from 2,200 to 4,000 volts and a separate rural feeder was erected.

Wingham—The Wingham Public Utilities Commission completed the remodelling of the office building purchased last year and is now enjoying the facilities of a modern office and showroom.

EASTERN ONTARIO SYSTEM

On the Eastern Ontario system there was a rapid increase in the municipal load during the year and extensive construction of lines in the rural districts resulted in a general increase in the power supplied to the rural areas. A severe shortage of power occurred in the late summer of 1936, owing to exceptionally low water flow on the Trent river, which was taken care of by use of a temporary connection with the Niagara high-tension lines and the use of a frequency changer at Chats Falls generating plant. Anticipating a considerable load increase this year and a possible recurrence of low water flow on the Trent river, the Commission decided to make a permanent connection between Trenton and Chats Falls and accordingly constructed during the summer a 110,000-volt line between these two points. Additional sources of power on the Trent river were secured by purchasing three plants from the Canada Cement Company in the vicinity of Lakefield in December, 1936, and the plant of the Quinte Valley Power Company at Frankford on October 1, 1937. These additional power sites, combined with exceptionally good water conditions on the Trent river, have made it unnecessary to take any large amounts of power through the new line and the frequency changer at Chats Falls.

General engineering assistance was given to practically all municipalities in the Eastern Ontario system, respecting the operation and management of their local Hydro utilities.

Certain municipalities received special engineering advice and assistance with regard to matters detailed below:

Kingston—The city of Kingston, up to the present time, has had a contract on a fixed rate. The contract having expired, the city has entered into a cost contract.

Millbrook—The corporation of Millbrook has opened negotiations with a view to purchasing power on a cost basis and taking over the ownership of the distribution system from the Commission. The negotiation and estimates are not yet concluded.

Morrisburg—Negotiations were continued and further estimates prepared in connection with supplying this municipality with 200 horsepower to supplement the output of the present generating plant.

Newboro—Estimates were prepared for this municipality showing the cost of power and the rates to be charged under a cost contract with the Commission.

Newburgh—The corporation of the village of Newburgh is considering the purchase of the distribution system in Newburgh from the Commission. Full information regarding this and estimates on the cost of power have been submitted to the municipality.

Newcastle—The electors of the village of Newcastle in January, 1937, voted in favour of the purchase of the local distribution system and of securing a supply of power at cost from the Commission. The necessary agreements have been entered into and the municipality now operates on a cost basis.

Peterborough—The Commission assisted the Peterborough Public Utilities Commission in obtaining tenders for the installation of an additional 1,500 kv-a transformer in the Peterborough transformer station. Owing to the rapid growth of load in Peterborough, plans are now being made and tenders received for a further installation of 3,000 kv-a in transformer capacity in this station.

THUNDER BAY SYSTEM

Although the previous year's operations on the Thunder Bay system recorded the most successful year in its history, the past year has shown continued progress in both load growth and operating revenue. The increase in the average primary load sold was 19.5 per cent over the previous year and the highest primary peak established during the year was 88,800 horsepower, an increase of 5,710 horsepower, or approximately 7 per cent. The greater increase in the average load sold is indicative of a much more extensive use of energy, the generating and transmission equipment having been operated at higher load factor, with a resultant improvement in system revenue. A large amount of power from this system is utilized by the grain trade for operating the terminal elevators at Port Arthur and Fort William, and the enormous reduction in the

crop harvested in Western Canada during the past year naturally resulted in a severe curtailment in the power demand from the grain industry at the lake head ports. The continuous improvement in the pulp and paper industry, which consumes approximately 50 per cent of the present load supplied by the Thunder Bay system and had an average load increase in the neighbourhood of 25 per cent as compared with the previous year, and greater consumption by the mining industry in the Sturgeon river and Little Long Lac areas, which with six additional mines served had an average load increase of approximately 53 per cent over the previous year, more than offset the loss of load from the grain trade. For this reason, together with a general increase in the municipal and rural power district loads, the primary power demands of the Thunder Bay system are rapidly approaching the limit of the available generating capacity, and studies will be made immediately with respect to providing additional power development. Both the Cameron Falls and Alexander developments which constitute the source of power supply for the Thunder Bay system have been operated to maximum capacity throughout the year, all of the capacity not required for primary power purposes having been sold as temporary power for electric steam generation at various pulp and paper mills.

The new 110,000-volt transmission line between the Cameron Falls development and the Little Long Lac mining area, the construction of which was commenced last year, was completed and placed in operation at 44,000 volts pending the completion of a transformer station at its Long Lac terminus. This new transformer station of 4,500-kv-a capacity was designed and its equipment purchased. It will be completed and placed under load early next year. During the year the Commission completed the purchase of the original 44,000-volt transmission lines between Cameron Falls and the Little Long Lac mining area from the two mining companies jointly owning them. The Commission also completed the purchase of branch transmission lines from six other mining companies. In consequence of these transactions, all of the transmission lines in the mining area west of lake Nipigon are now owned and operated by the Commission.

A large block of power was purchased by the Commission during the year from the Kaministiquia Power Company to supplement the output of the Nipigon generating plants for the purpose of supplying the secondary power requirements for electric steam generation of the various pulp and paper mills.

A further reduction in rates, in addition to the one made last year, was authorized by the Commission in connection with power supply to the pulp and paper mills, the reduction being from \$18.00 per horsepower per annum to \$17.00 per horsepower per annum for power supplied at 110,000 volts, and from \$19.50 per horsepower per annum to \$18.50 per horsepower per annum for customers supplied at 22,000 volts. A further reduction in resale rates for domestic and commercial lighting and power consumers was authorized in Port Arthur, Fort William and Nipigon village, and these new rates were placed in effect during the year.

Assistance in the nature of general engineering advice concerning the operation of the local distribution systems was given to the cities of Port Arthur and Fort William, also to the village of Nipigon. Distribution systems were constructed and placed in operation during the year in the mining townsites of Beardmore and Geraldton. Both of these townsites are situated in

unorganized townships, service being given to individual consumers by the Commission on behalf of the Thunder Bay system. The load and number of consumers served showed a considerable increase at the close of the year, although both of these distribution systems had only been in operation for approximately six months.

MANITOULIN RURAL POWER DISTRICT

A number of consumers were added to the existing lines and an extension constructed to serve Providence Bay. Both the peak load and the average yearly load have increased to such an extent that it was necessary to negotiate for an increased generating capacity which it is expected will be placed in operation early next year.

NORTHERN ONTARIO PROPERTIES

The Northern Ontario Properties is the name which has been given to the generating plants, transmission lines, transformer stations and distribution systems situated in the northern and north-western parts of the Province, which are held and operated by the Commission in trust for the Province of Ontario, as a distinct and separate unit from the co-operative systems in the southern and eastern parts of the province, which are operated by the Commission on a cost basis on behalf of the various municipalities.

Although most of the primary power in the various districts forming the Northern Ontario Properties is being utilized by operating mines, and mines under development, power is also being supplied for municipal purposes to two cities, three towns, six villages, townsites and hamlets, and two rural power districts. The remarkable increases in power consumption during the previous year have been repeated during the past year in both the municipal as well as the mining loads, the average load sold for mining purposes showing an increase of approximately 41 per cent over the previous year, ten new mining customers having been connected to the system and been given service during the year.

Engineering advice and assistance relative to power supply and operation of local distribution systems was given to the towns of Cochrane and Sioux Lookout, and information concerning power supply was given to various municipalities and mining properties not yet connected to any of the existing transmission systems in the northern part of the Province.

The activities in the various districts of the Northern Ontario Properties are detailed in the following paragraphs:

Nipissing District

This district covers the area served by three small hydro-electric developments on the South river, and includes the city of North Bay, the town of Powassan, and the village of Callander. The power supplied in this district is taken up wholly and entirely for municipal purposes and shows a slight increase over the previous year.

Sudbury District

This district includes the territory which lies in and around the city of Sudbury. Power from three hydro-electric developments on the Wanapitei river is supplied to the city of Sudbury, the town of Capreol, and the International Nickel and Falconbridge Nickel companies. The continued load growth in this district has created demands beyond the capacity of the existing generating plants and during the year the development originally constructed by the Abitibi Power & Paper Company at Crystal Falls on the Sturgeon river was acquired by the Commission and connected with the Wanapitei developments at Coniston through a 44,000-volt transmission line which is being temporarily operated at 22,000 volts. By this means an additional 5,000 horsepower was immediately made available. With 44,000-volt operation, 10,000 horsepower will be available. As the Crystal Falls development was already tied into the Nipissing district developments on the South river through a transmission line terminating at North Bay, studies were made with respect to amalgamating the Sudbury and Nipissing districts, by which means it would be possible to obtain a continuous transmission line network between all of seven generating plants and thereby combine the total generating capacity for the benefit of all consumers in both districts.

Arrangements were completed for extending distributing lines into the rural districts which lie immediately east, south and west of the city of Sudbury in McKim township and construction work was started at the close of the year. It is expected that this work will be completed and service given early in the new year. The possibility of constructing distributing lines and giving service to various portions of the united townships of Neelon and Garson, and the townships of Caldwell, Capreol, Blezard, Field, Hanmer and Rayside was carefully studied and construction of distributing lines in parts, if not all of these areas, will probably be undertaken during the coming year.

Engineering advice and general assistance was given to the local Commissions in Sudbury and Capreol in connection with the management and operation of their respective local distribution systems.

Abitibi District

This district consists of the area served by and within transmission distance of the Abitibi Canyon development inclusive of the mining districts of Porcupine, Shiningtree, Sudbury Basin, Matachewan, Kirkland Lake and Larder Lake. The remarkable load growth in this district which has taken place in previous years has been continued during the past year as a result of demands created by the increased production of existing mines, as well as by additional mining properties being served. There were eight new mining properties served in this district during the year and the increase in the average primary load was approximately 53 per cent over the previous year.

The 4,500-kv-a transformer station at Pamour and the branch 110,000-volt transmission line serving it was completed and placed in operation. The Timmins transformer station was increased from 4,500 kv-a to 9,000 kv-a by the addition of a second bank of transformers, and a spare 1,500-kv-a transformer was purchased and installed at the Matachewan station. Approxi-

mately 50 miles of 26,400-volt and 12,000-volt transmission lines were constructed in the Porcupine, Kirkland Lake and Larder Lake areas for the purpose of serving new mining properties connected in these districts during the year.

All of the mining properties under contract with the Commission, as well as most of the other properties in the development stage were visited on several occasions during the year for the purpose of rendering assistance and advice concerning power supply. As a result several new mining power contracts were obtained and others are still under negotiation.

The distribution systems in the mining townsites of Matachewan, Hislop and King Kirkland, also in the town of Matachewan and the village of Ramore, with service supplied direct by the Commission to the individual consumer, were successfully managed and operated during the year with increases recorded in both the number of consumers served and in the total power consumption.

Espanola District

This district includes the territory within transmission distance of the Abitibi Power and Paper Company's hydro-electric development at Espanola, from which the Commission purchases power to supply consumers under contract in the district. The one mining company which has been served by this means ceased operations during the year, but negotiations have been carried on with other mining properties and there is a probability that another large load may shortly be secured from a mine which has been in the development stage for some time.

Patricia District

This district is served by the Commission's Ear Falls development on the English river at the outlet of Lac Seul and includes the mining areas known as Woman Lake and Red Lake. During the year the Commission completed the installation of a second generating unit at the Ear Falls development, increasing the capacity from 5,000 to 10,000 horsepower, and power was supplied for the first time to two mining properties in the development stage. On this account there was considerable increase in load over that supplied during the previous year.

All of the mining properties under contract with the Commission, as well as most of those in the development stage were visited during the year and assistance rendered in connection with matters pertaining to power supply.

St Joseph District

This district comprises the area within the transmission distance of the Commission's Rat Rapids development on the Albany river at the outlet of lake Joseph. Two producing mining properties are being served and service was given during the year to a new property in the development stage. The Rat Rapids development is now loaded to capacity and studies will be made immediately with respect to providing additional development for this district.

MUNICIPAL HYDRO UTILITIES

TWENTY-FIVE YEAR RECORDS

THE Hydro utilities of Ontario municipalities which are partners in the several systems of the Commission have a noteworthy record of successful achievement. Under the guidance of the Commission and with the benefit of service given by public-spirited citizens acting as commissioners and in other capacities, the local electrical utilities, whether organized as strictly "Hydro" systems or as branches of local public utilities, have built up through the years strong local distribution organizations in excellent financial strength with ample reserves and with rates for service at most attractive levels.

In last year's Annual Report there were presented summary reviews of six Hydro utilities selected from those which have been in operation for a period of twenty-five years or more. On the following pages further similar records are presented and the story they tell confirms the general record of Hydro progress in the partner municipalities throughout the years. The municipalities selected this year are,—the city of Kitchener, population 32,650; the towns of Mimico, population 6,876, Midland, population 6,690, Brampton, population 5,568, and St. Marys, population 4,023; and the village of Norwich, population 1,174.

For each utility there is given a brief statement outlining its history, a summary of its present financial position, a table of the present charges for service for a few representative demands and consumptions, and a number of graphs showing the growth of the utility during the past twenty-five years.

Owing to the large variation in size of municipality, the scales employed for the graphs necessarily differ for each utility but certain methods have been followed to make them as uniform as possible. For each individual utility, the scales employed for the assets and liabilities are of course the same. It will be noted that for many years, the liabilities with minor fluctuations have remained more or less stationary or have actually been declining, the increased plant having been financed out of surplus, etc., and the original investment being under liquidation by the operation of sinking funds. For each municipal utility, the scales of horsepower and population bear a definite relationship to each other, being $\frac{1}{2}$ horsepower per capita for the same vertical height from zero. It will be noted for example, that in the industrial city of Kitchener the power taken has exceeded $\frac{1}{2}$ horsepower per capita for the past three and certain earlier years, whereas, in Mimico, largely a suburban residential district, it has remained well below this amount. The character of the predominating industry has an important bearing on the average horsepower used per capita.

On each plate the four graphs showing revenue from various sources are to the same scale which, for any given municipality, enables a direct comparison of the several sources of revenue to be made. It will be noted that in most cases, revenues for domestic service, especially during the latter half of the period, have been of growing importance and in many cases, the chief source of income.

The graphs on the right hand side under domestic and commercial light service, clearly show the influence of increased consumption on average cost per kilowatt-hour.

KITCHENER—Population 32,650**THE PUBLIC UTILITIES COMMISSION**

The enterprising city of Kitchener, then known as Berlin, was first supplied with electric power in the year 1895. The first generators were two Ball arc machines in a manufacturing company's plant and supplied electricity for lighting King Street. In 1903 the Berlin Light Commission was formed. The then existing steam plant, including bi-polar Edison direct-current generators of 200-kw. capacity, was purchased by the city. The steam plant was changed over to gas engines which later were modified to use producer gas. This plant remained in operation until the coming of Niagara power. Meantime the city was developing into a manufacturing centre of importance.

Although other municipalities played an important part in the creation of the Hydro enterprise, it was the outcome of the conference held at Berlin on February 17, 1903, that gave Kitchener the right to be known as the Birthplace of Hydro. It was fitting, therefore, that Berlin was the first municipality to receive Hydro power and was the scene of the inaugural ceremonies which took place on October 11, 1910.

With the close of the twenty-sixth year of operation, the total assets of the Hydro utility of Kitchener are \$2,671,144; the total liabilities \$344,659; the reserves and surplus \$2,326,485. The percentage of net debt to total assets is only 15.1.

Included with the assets and with the surplus above noted is an amount of \$1,039,730 which represents the sinking fund equity of the local Hydro utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

On the diagram facing this page a graphical presentation is given of the progress made by the Kitchener Hydro utility during the past twenty-five years. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE**Monthly Bills for Representative Demands and Consumptions**

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs.	\$ c.	kw	kw-hrs.	\$ c.	kw	kw-hrs.	\$ c.
25	0.75	1	50	1.31	3	150	4.65
40	0.87	1	150	2.39	3	375	6.03
60	1.30	3	150	3.92	6	375	9.89
100	1.62	3	375	6.83	6	750	12.05
150	2.03	6	375	9.12	12	750	19.77
250	2.84	6	750	13.64	12	1,500	24.09
500	4.86	12	750	18.23	30	3,000	58.52
...	.....	12	1,500	27.27	30	6,000	65.21
...	.....	30	3,000	64.80	60	6,000	117.05
...	.....	30	6,000	78.30	60	15,000	137.10

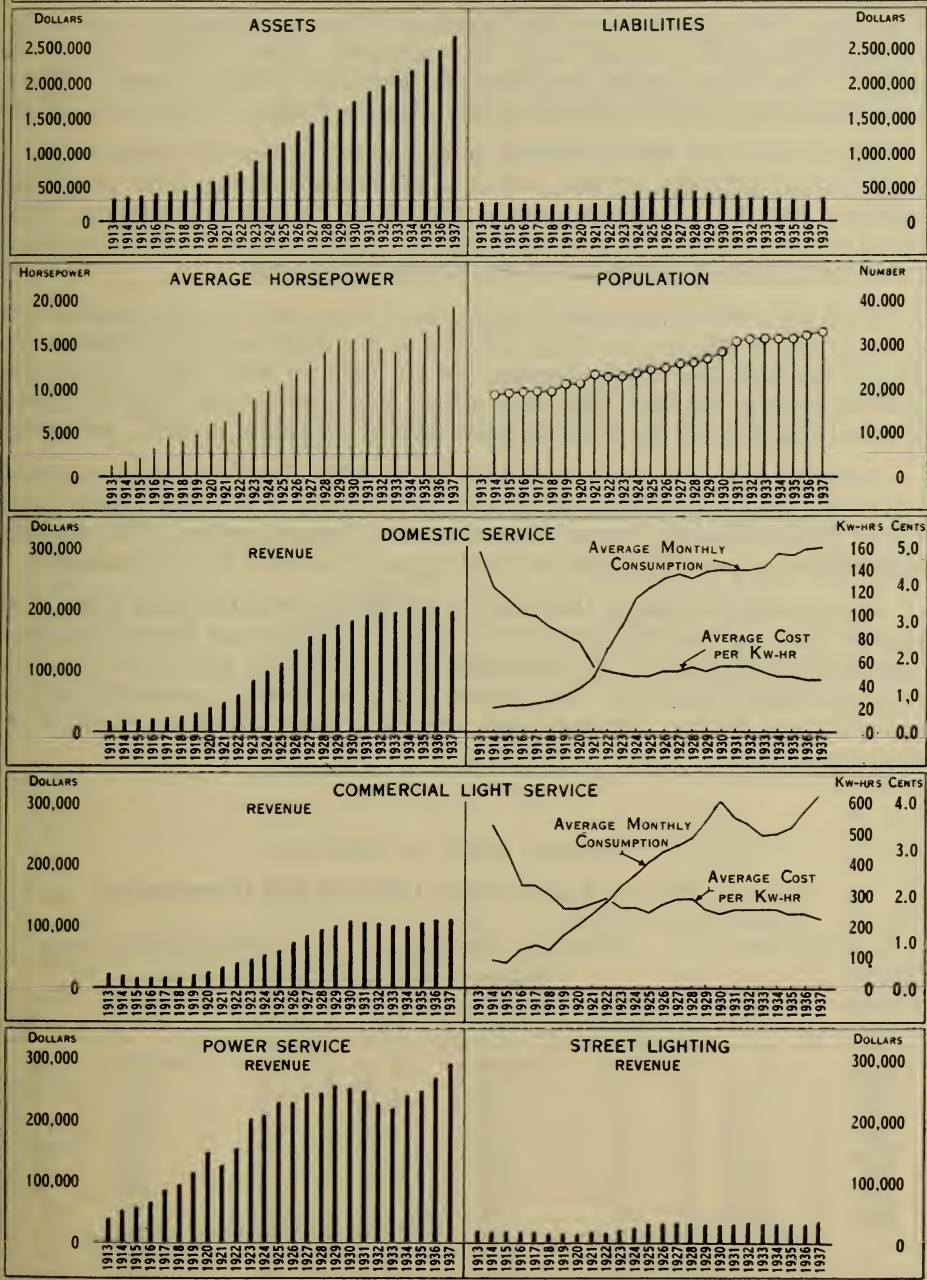
*Minimum bill.

MUNICIPAL HYDRO UTILITIES TWENTY-FIVE YEARS RECORD

SERVICE FIRST TAKEN
JAN. 1911

KITCHENER

NIAGARA
SYSTEM



MIMICO—Population 6,876**PUBLIC UTILITIES COMMISSION**

In 1911, when the village of Mimico had less than a quarter of the population of the present large suburban district into which it has grown, electric light was supplied to the village by the Erindale Electric Power Company. In 1913, when Hydro service was first brought to this municipality, the company was supplying light to about 40 or 50 customers. When in 1916, The Hydro-Electric Power Commission purchased the Erindale Electric Power Company, these customers were transferred to the Mimico Public Utilities Commission.

Mimico was the first lake shore municipality to become interested in the development of Hydro service, and it is of interest to note that the present chairman, Mr. J. J. Harrison, was a member of its first Commission. This is typical of the continuity of service which has contributed so much to the success of the local utilities associated in the Hydro movement.

With the close of the twenty-fifth year of operation, the total assets of the Hydro utility of Mimico are \$349,422; the total liabilities \$68,257; the reserves and surplus \$281,165. The percentage of net debt to total assets is only 28.8; notwithstanding the fact that this utility has continuously had to provide increased distribution facilities to take care of a rapidly growing population.

Included with the assets and with the surplus above noted is an amount of \$112,767 which represents the sinking fund equity of the local Hydro utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

On the diagram facing this page, a graphical presentation is given of the progress made by the Mimico Hydro utility during the past twenty-five years. Throughout this period the customers of the Mimico utility have enjoyed favourable rates for service. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE**Monthly Bills for Representative Demands and Consumption**

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs	\$ c.	kw	kw-hrs	\$ c.	kw	kw-hrs	\$ c.
25	0.75	1	50	1.35	3	150	5.58
40	0.98	1	150	2.52	3	375	7.36
60	1.46	3	150	4.05	6	375	11.93
100	1.86	3	375	7.16	6	750	14.70
150	2.35	6	375	9.45	12	750	23.85
250	3.34	6	750	14.31	12	1,500	29.39
500	5.82	12	750	18.90	30	3,000	71.45
...	....	12	1,500	28.62	30	6,000	79.46
...	....	30	3,000	67.50	60	6,000	142.89
...	....	30	6,000	83.70	60	15,000	166.95

*Minimum bill.

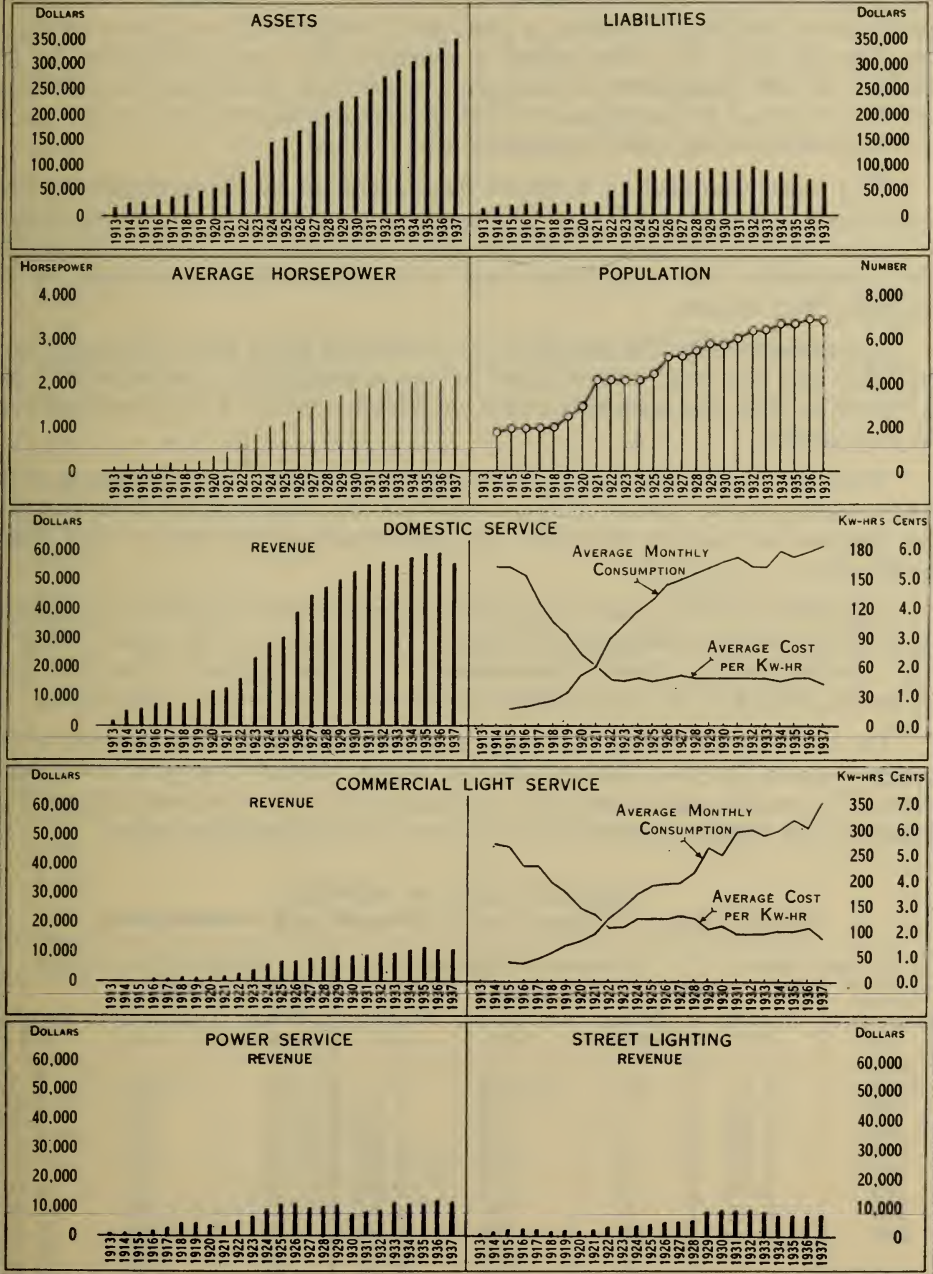
MUNICIPAL HYDRO UTILITIES

TWENTY-FIVE YEARS RECORD

MIMICO

SERVICE FIRST TAKEN
MAY 1912

NIAGARA
SYSTEM



MIDLAND—Population 6,690**PUBLIC UTILITIES COMMISSION**

Prior to 1911 the town of Midland owned and operated a steam electric plant, utilizing in summer the slabs and edging waste from local mills. At this time there were about 400 residences served and the charge for lighting service was about 9 cents net per kilowatt-hour. There were also important power using industries in Midland including a grist mill, woollen mill and grain elevator. On July 20, 1911, the town signed a contract with the Commission for the delivery of 200 horsepower of electrical power with provision for additional power in blocks of 50 horsepower till 500 horsepower was reached, and in blocks of 100 horsepower till 1,600 horsepower was reached.

The power supplied to Midland was purchased by the Commission from the Simcoe Railway and Power Company, being generated at the company's new plant at Big Chute on the Severn river. This plant was later purchased by the Commission and now forms part of the generating equipment of the Georgian Bay system.

Notwithstanding the fact that the industrial loads have fluctuated considerably and the total power taken by the municipality is substantially less now than in 1928, the operation of the local Hydro system has throughout been very successful.

With the close of the twenty-sixth year of operation, the total assets of the Hydro utility of the town of Midland are \$528,391; the total liabilities \$14,910; the reserves and surplus \$513,481. The percentage of net debt to total assets is only 4.2.

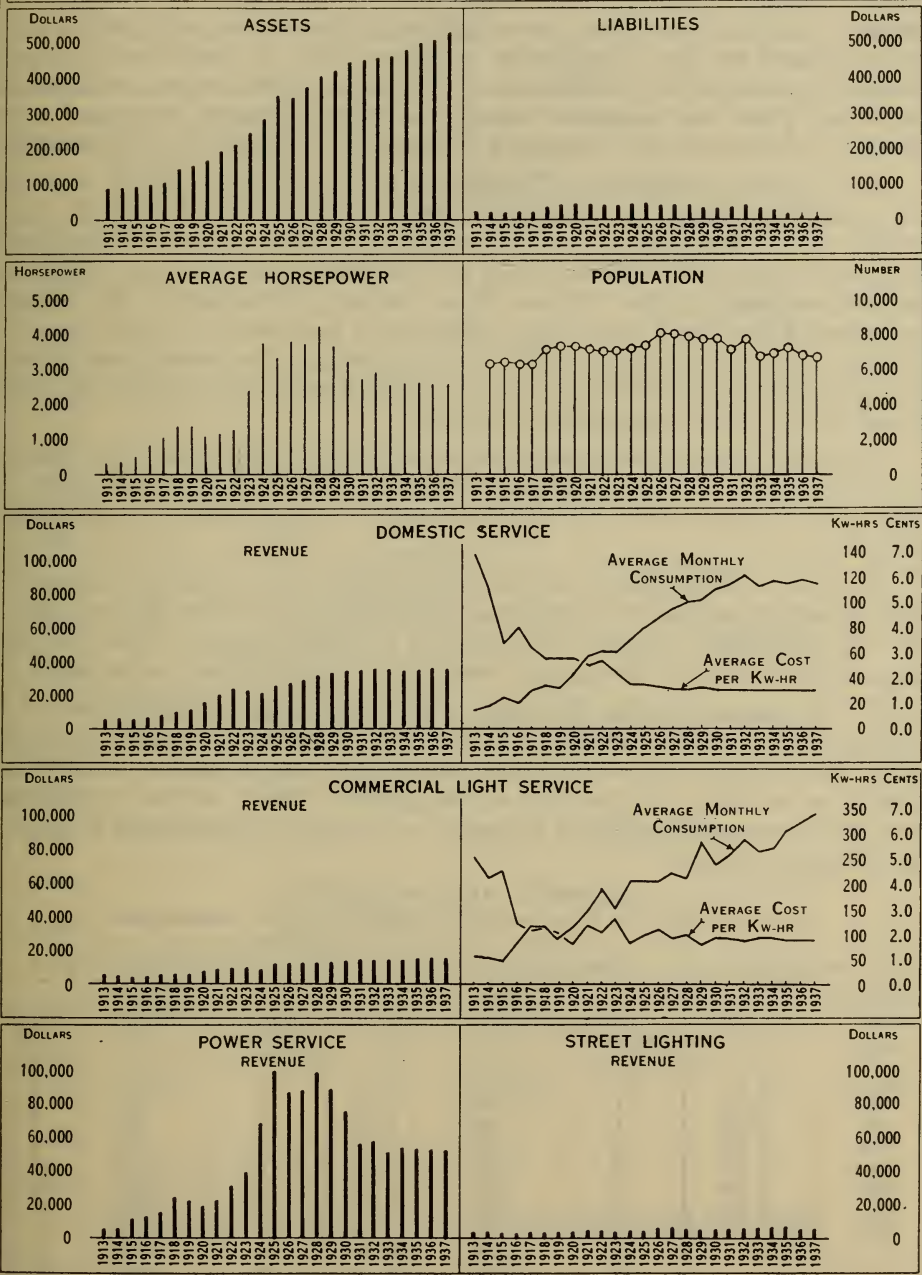
Included with the assets and with the surplus above noted is an amount of \$176,454 which represents the sinking fund equity of the local utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

On the diagram facing this page a graphical presentation is given of the progress made by the Midland Hydro utility during the past twenty-five years. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE
Monthly Bills for Representative Demands and Consumptions

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs	\$ c.	kw	kw-hrs	\$ c.	kw	kw-hrs	\$ c.
25	0.75	1	50	1.35	3	150	4.44
40	1.02	1	150	2.70	3	375	5.72
60	1.38	3	150	4.05	6	375	9.44
100	1.74	3	375	7.43	6	750	11.44
150	2.49	6	375	9.45	12	750	18.86
250	3.39	6	750	14.85	12	1,500	22.87
500	5.64	12	750	18.90	30	3,000	55.49
...	....	12	1,500	29.70	30	6,000	62.18
...	....	30	3,000	67.50	60	6,000	110.97
...	....	30	6,000	94.50	60	15,000	131.03

GEORGIAN BAY SYSTEM



BRAMPTON—Population 5,568

BRAMPTON HYDRO-ELECTRIC COMMISSION

More than fifty years ago, in the year 1885, Brampton was supplied with electric light from a plant erected by Mr. J. O. Hutton, at Huttonville on the Credit river, four miles west of Brampton. The plant of the Huttonville Electric Power Company utilized a water wheel built by Mr. Barber of Meaford. The company supplied power and street lighting in Brampton until 1903, when it was purchased by John McMurchy of Huttonville. At that time there were about 45 customers. Mr. McMurchy, shortly after taking control, enlarged the generating plant and supplied lighting for 500 customers, increased street lighting, and power to the Brampton Milling Company and W. B. McMulloch.

The by-law submitted in December, 1910, carried in favour of Hydro power, and on August 11, 1911, Hydro power was first supplied to the municipality. It is interesting to note, however, that power from the Huttonville plant was supplied to three factories in Brampton until 1932, and since then has been supplied to the Williams Shoe Company. The late T. W. Duggan, a member of the first Commission, continued a member for twenty-five years until he retired in December, 1937. He was chairman for twenty-four years, a record typical of the faithful service which has contributed so much to Hydro success in the local communities it serves.

With the close of the twenty-sixth year of operation, the total assets of the Hydro utility of Brampton are \$323,505; the total liabilities \$11,529; the reserves and surplus \$311,976. The percentage of net debt to total assets is only 6.2.

Included with the assets and with the surplus above noted is an amount of \$137,759 which represents the sinking fund equity of the local Hydro utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

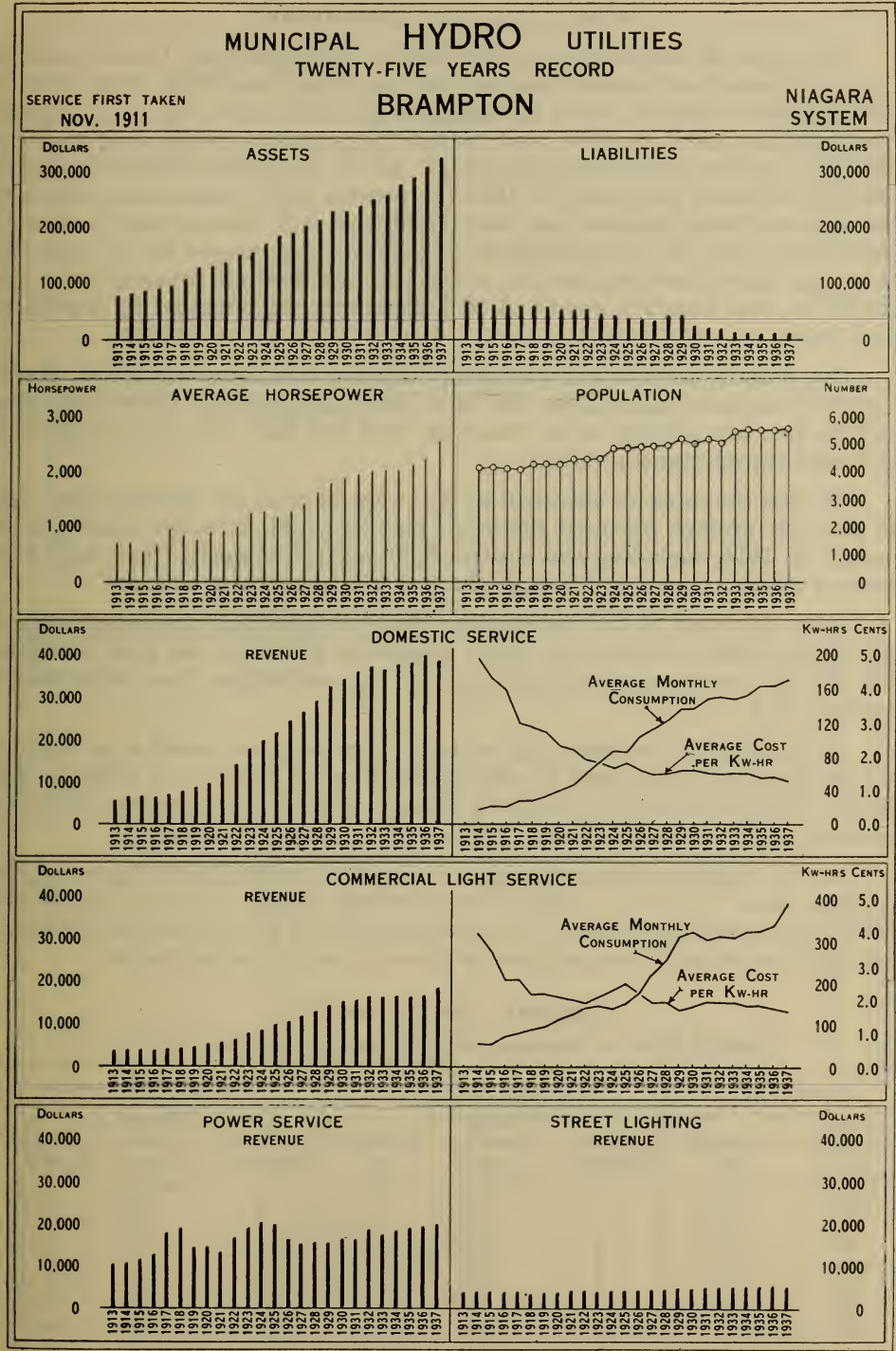
On the diagram facing this page, a graphical presentation is given of the progress made by the Brampton Hydro utility during the past twenty-five years. Throughout this period the customers of the Brampton utility have enjoyed favourable rates for service. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE

Monthly Bills for Representative Demands and Consumption

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs	\$ c.	kw	kw-hrs	\$ c.	kw	kw-hrs	\$ c.
25	0.75*	1	50	1.26	3	150	4.44
40	0.83	1	150	2.34	3	375	5.72
60	1.25	3	150	3.78	6	375	9.44
100	1.61	3	375	6.62	6	750	11.44
150	2.06	6	375	8.78	12	750	18.86
250	2.96	6	750	13.23	12	1,500	22.87
500	5.21	12	750	17.55	30	3,000	55.49
...	....	12	1,500	26.46	30	6,000	62.18
...	....	30	3,000	62.10	60	6,000	110.97
...	....	30	6,000	78.30	60	15,000	131.03

*Minimum bill.



ST. MARYS—Population 4,023**PUBLIC UTILITIES COMMISSION**

Electrical service in St. Marys started in 1889 when Tom Brown installed a small bi-pole direct current generator at the Weir Flour Mills, wired some of the stores and replaced street oil lamps by arc lights. The late L. H. Reesor purchased the plant in 1890, and moved the generator to the Carter Flour Mills at the East end of Victoria Bridge. About the middle nineties the town council purchased the plant. In 1898 the present pump house was built and the waterworks and electric plant were combined. A 200-horsepower compound engine drove two 60-cycle generators at night and the pumps by day. In 1905 these generators were replaced by a 300-kilowatt 60-cycle rotating field type generator, and a second engine of 80 horsepower was operated in parallel at peak loads.

The most important manufacturing industry of St. Marys is the St. Marys Cement Company based upon the local limestone deposits. Other industries include flour and planing mills, foundries, food and dairy plants, and electrical and agricultural manufactures.

In 1904 the rates for electrical service were 12 cents per kilowatt-hour, less 25 per cent prompt payment discount, plus 20 to 25 cents per month meter rental. In 1914, including the electric light and waterworks there were four users of electric power with installations of 100 horsepower or more.

With the close of the twenty-sixth year of operation, the total assets of the Hydro utility of the town of St. Marys are \$304,163; the total liabilities \$31,737; the reserves and surplus \$272,426. The percentage of net debt to total assets is 15.4.

Included with the assets and with the surplus above noted is an amount of \$108,390 which represents the sinking fund equity of the local utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

On the diagram facing this page a graphical presentation is given of the progress made by the St. Marys Hydro utility during the past twenty-five years. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE**Monthly Bills for Representative Demands and Consumptions**

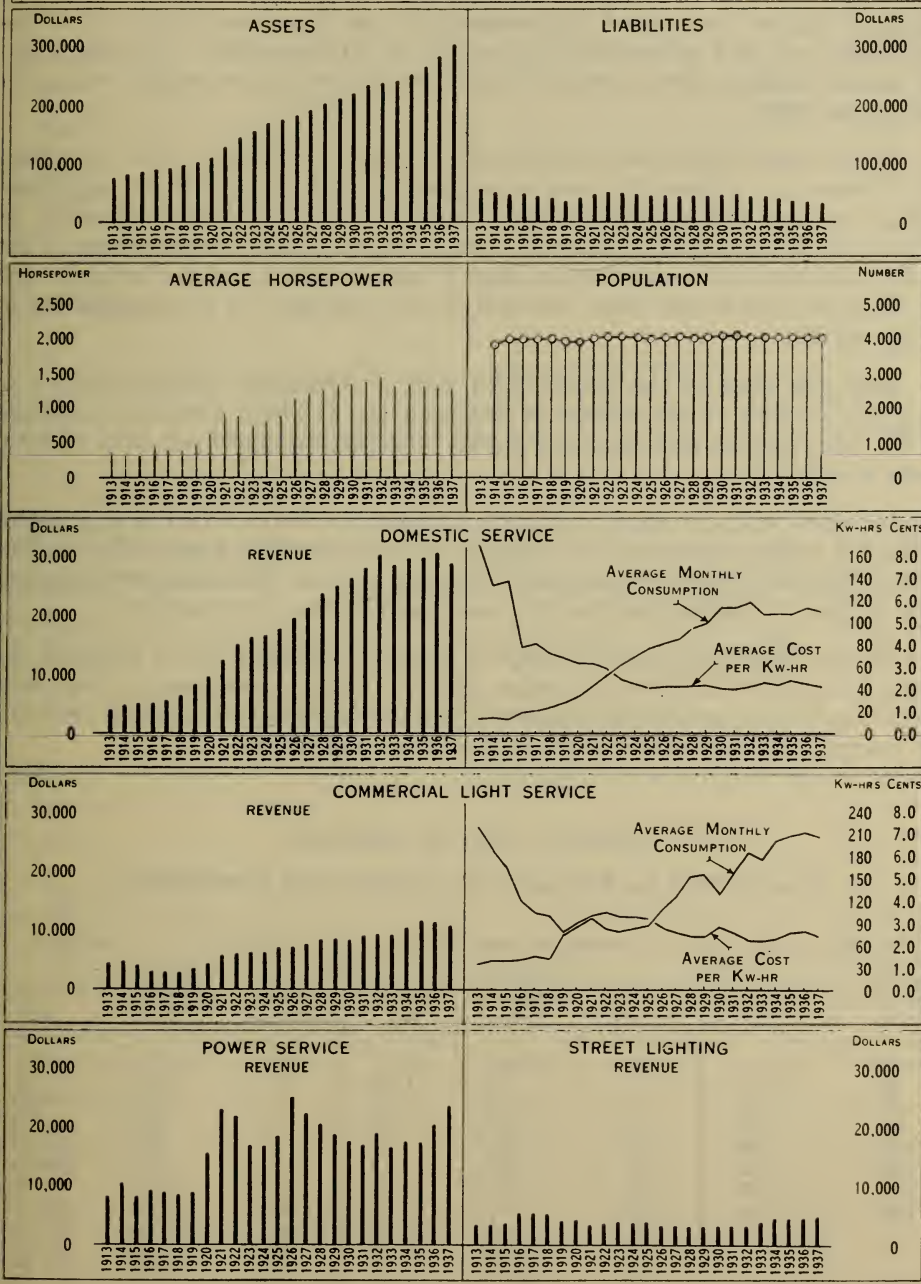
Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs	\$ c.	kw	kw-hrs	\$ c.	kw	kw-hrs	\$ c.
25	0.86	1	50	1.67	3	150	6.59
40	1.37	1	150	3.29	3	375	8.71
60	2.06	3	150	5.00	6	375	14.13
100	2.45	3	375	9.26	6	750	17.41
150	2.95	6	375	11.82	12	750	28.25
250	3.94	6	750	18.50	12	1,500	34.81
500	6.41	12	750	23.63	30	3,000	84.78
...	....	12	1,500	36.99	30	6,000	93.69
...	....	30	3,000	86.40	60	6,000	169.56
...	....	30	6,000	110.70	60	15,000	196.29

MUNICIPAL HYDRO UTILITIES
 TWENTY-FIVE YEARS RECORD

SERVICE FIRST TAKEN
MAY 1911

ST. MARYS

NIAGARA SYSTEM



NORWICH—Population 1,174**PUBLIC UTILITIES COMMISSION**

Prior to contracting with the Commission for Hydro service, the village of Norwich was supplied with a limited lighting service from a steam plant owned by the late H. Webster. Service was given only between dusk and midnight but for the limited requirements of that time was satisfactory. The maximum load on a winter evening was about 50 horsepower. The charge for the limited lighting service was 10 cents per kilowatt hour, which was really quite reasonable.

The present Hydro service forms an interesting contrast with conditions thirty years ago. There are now seven power consumers with an aggregate average load of 120 horsepower, and ninety commercial light consumers, in addition to 350 domestic consumers. The average monthly consumption of the domestic consumer is seven times what it was in 1913, and the average cost per kilowatt-hour is less than one-fifth of the cost prior to the installation of Hydro service.

With the close of the twenty-fifth year of operation, the total assets of the Hydro utility of the village of Norwich are \$82,945; the total liabilities \$3,985; the reserves and surplus \$78,960. The percentage of net debt to total assets is only 7.5.

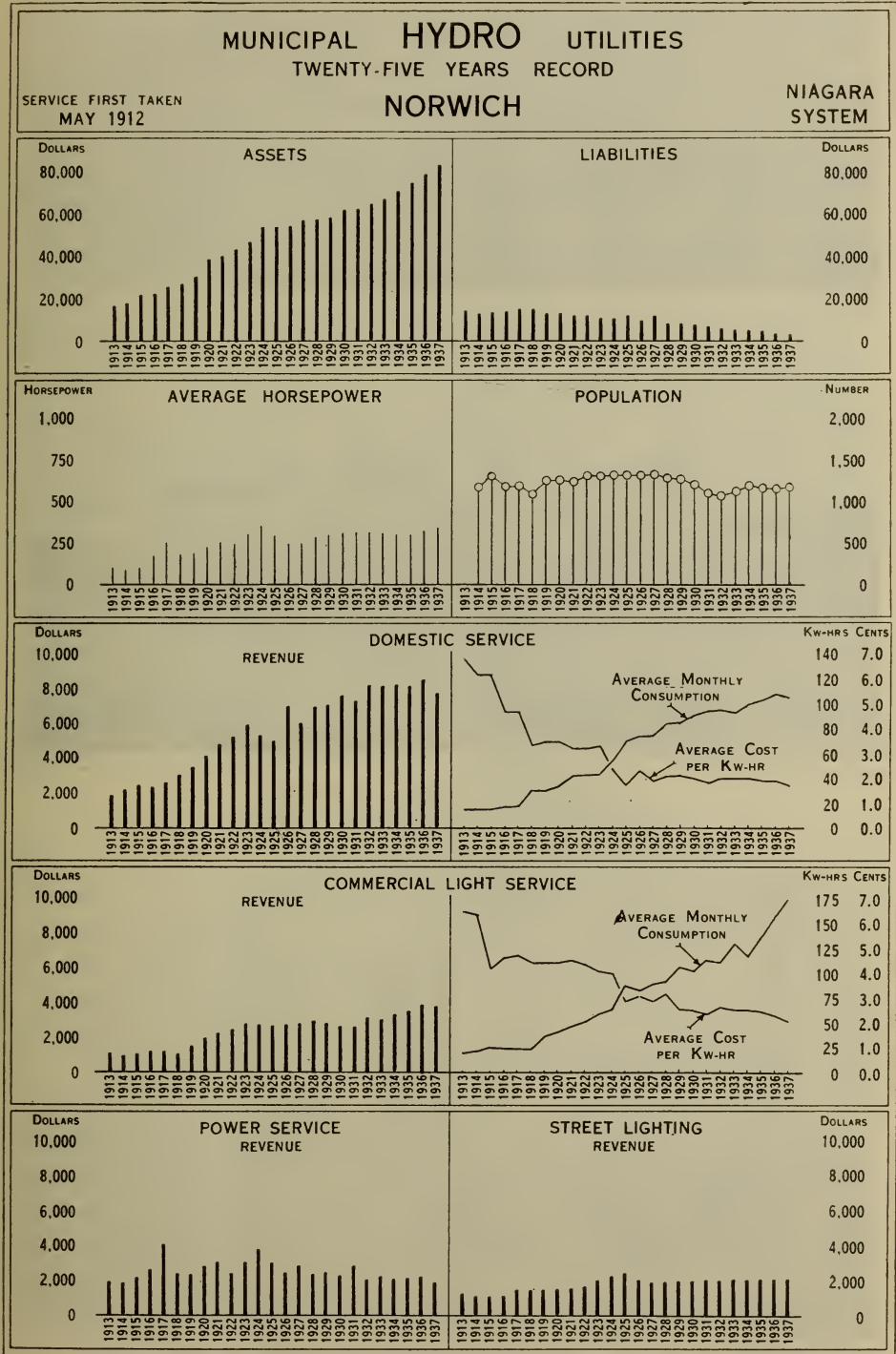
Included with the assets and with the surplus above noted is an amount of \$29,951 which represents the sinking fund equity of the local utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

On the diagram facing this page a graphical presentation is given of the progress made by the Norwich Hydro utility during the past twenty-five years. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE**Monthly Bills for Representative Demands and Consumption**

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs	\$ c.	kw	kw-hrs	\$ c.	kw	kw-hrs	\$ c.
25	0.75*	1	50	1.44	3	150	5.21
40	1.01	1	150	2.70	3	375	6.63
60	1.52	3	150	4.32	6	375	11.02
100	1.88	3	375	7.70	6	750	13.24
150	2.33	6	375	10.13	12	750	22.03
250	3.23	6	750	15.39	12	1,500	26.47
500	5.48	12	750	20.25	30	3,000	64.16
...	....	12	1,500	30.78	30	6,000	72.18
...	....	30	3,000	72.90	60	6,000	128.31
...	....	30	6,000	89.10	60	15,000	152.37

*Minimum bill.





A RUBBER COMPANY'S PLANT AT KITCHENER
Dominion Tire Factory



A FLOUR MILL AND ELEVATOR AT MIDLAND
Copeland Flour Mill — Midland Elevator Company



A CEMENT PLANT AT ST. MARYS
Portion of St. Marys Cement Company plant



RECREATION FACILITIES AT BRAMPTON

Skating rink with "Hydro" lighting



HYDRO BUILDING AT KITCHENER

RURAL ELECTRICAL SERVICE

IN ONTARIO

Rural electrical service has been studied by The Hydro-Electric Power Commission of Ontario since the earliest years of its existence. The possibility of making farm life more attractive to the younger citizens of rural Ontario through electrical service, and of relieving both the farmer and his wife of much of the routine drudgery of farming as carried on in Ontario, was prominently in the mind of the Commission's first Chairman, Sir Adam Beck. Early Annual Reports of the Commission bear witness to the efforts made in this direction by the Commissioners.

During the earliest years the only farmers in Ontario using electricity were a few adjacent to urban municipalities where line extensions could easily be made as part of the urban distribution systems. Up to the year 1920 the progress made was comparatively small. In that year, under amended legislation, the Province was divided into rural power districts whose boundaries were not arbitrary geographical limits but depended upon the economical areas which could conveniently be served from a distribution centre of city, town or village. In the following year a great impetus to rural electrification was given by the Province undertaking to pay as a grant-in-aid fifty per cent of the cost of rural primary lines on highways throughout the Province. In 1924 the grants were further extended and during the following decade great progress was made, as may be seen by reference to the graphs accompanying this report. In previous Annual Reports the history of rural electrical service in this Province is more fully detailed. A clearer understanding of its present status may be gained by first noting the following general statements.

The Province of Ontario extends over a vast area of 400,000 square miles, the southern part of the Province commonly known as "Old Ontario," comprising most of the settled area. In this territory there is an assessed area of approximately 40,000 square miles containing about twenty-two million acres, of which 75 per cent is land cleared for agricultural purposes. The total rural population in this area exceeds 1,100,000.

Census data indicates that there are approximately 200,000 farms in Ontario, varying from one acre to six hundred acres, or larger. It would be erroneous to conclude that hydro-electric service will eventually extend to such a number of farms. Approximately 10 per cent of these, are very small, and service to them if available is supplied by the Commission under rates applicable to non-farm classes. A large number of farms are jointly owned and tenanted, and a large number are situated in remote districts out of reach of Hydro lines and stations. The Commission, based on certain surveys in various parts of the Province, estimates that approximately 75,000 standard or large farms comprise the ultimate total farms to be served. At the present time,



AN ATTRACTIVE FARM HOME IN ONTARIO

The time saved through the use of labour saving electric equipment in home and barn is frequently devoted to maintenance of fences and buildings and to the cultivation of fruits and vegetables for the home or market, as illustrated above

approximately 45,000 of these standard farms are served by the Hydro or by private supply companies. Of the remaining 30,000, it is expected that most will be served during the next five years. In addition to the 75,000 farms, there are approximately 30,000 more farms to which, due to various economical and other circumstances, service is improbable or at best indefinite.

The distribution of power in, as well as the wholesale supply of power to, Ontario rural communities, is almost entirely carried out by The Hydro-Electric Power Commission. A very limited amount is supplied by private companies. The Commission organizes service to consumers in townships or parts of townships which can be grouped into economic areas known as rural power districts, and in doing so, acts as trustee and agent for the various townships of the Province.

There are 177 operating rural power districts, and power is delivered to approximately 86,000 rural consumers, comprising farms and dwellings in various groups. The consumers are situated in 378 townships and 96 police villages, and are served over networks of rural primary lines, which aggregate more than 13,000 miles. In addition to the 378 townships served by rural power districts, 10 townships are served jointly by rural power districts and voted areas.

The benefits of rural electrical service are explained to prospective rural consumers by means of direct information given by the Commission's employees, by demonstrations at annual fairs and exhibitions and through the press. Frequent visits to larger centres of population have made the farmer familiar with the application of electrical appliances and machinery as a means of providing greater comfort in the home and freedom from the drudgery of

certain farm work. Perhaps the most persuasive argument to the farmer is his knowledge of the benefits electrical service has brought to his neighbour. Once the progressive farmer installs electrical service, he does not rest content until he has secured additional equipment to enable him to obtain fuller advantages from the service. This process is doubly beneficial because, not only does it reduce the average cost of electricity to the individual farmer, but it tends towards securing lower rates throughout the district. The aim of the Commission and of the rural consumers should be the maximum use of the power made available so that the average cost to the consumer may be suitable to the economic conditions of farm life.

The Commission desires, in every reasonable way, to encourage the more liberal use of electrical service in rural areas, especially by the farmers. Under the policy by which rural power districts receive their wholesale supplies of power at cost, combined with the substantial contributions of the Province to aid the distribution of electricity to rural citizens, the Ontario farmer receives service at an exceptionally low cost. Beginning December 1, 1936, the service charge to Class 2B—Farm Service, Small—and to Class 3—Farm Service, Light—was reduced to one dollar net per month, which is a reduction of about 50 per cent from the previous standard service charges. Medium, Heavy and Special farm service received service charge reductions of 25 per cent from the standard rates. In addition to these reductions, further substantial reductions were made to other classes of rural consumers, beginning August 1, 1937. These reductions may be noted by reference to the tables set out in this report.

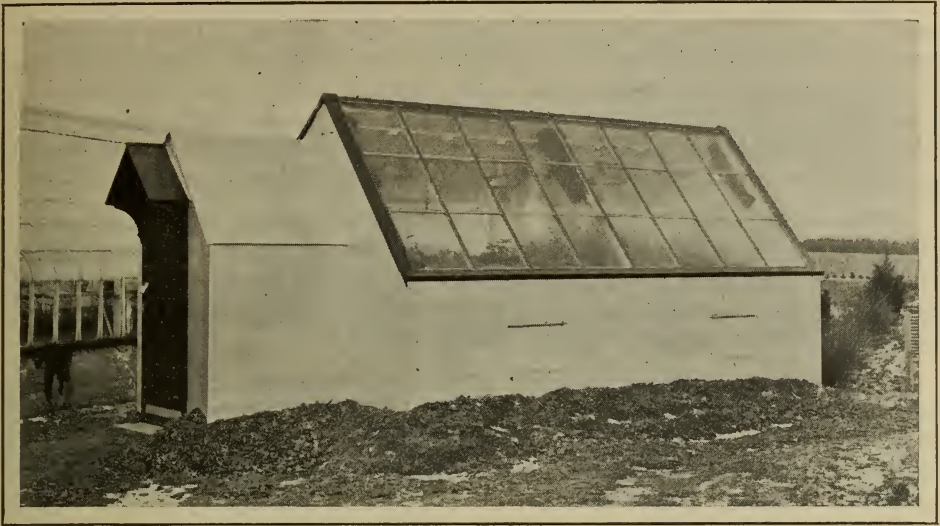
The Commission has observed that quite a large proportion of consumers in rural power districts fail to make much more than a minimum use of the service and do not appear to appreciate fully how much more service can be obtained by a comparatively small addition to their monthly bills. Efforts are being made to explain this and other features of Hydro service to the farmer in ways which will appeal to him. Not only has the service charge to the rural citizen been made very small but the number of kilowatt-hours charged for at his first energy rate is usually smaller than in cities, towns and villages. Consequently, a very moderate use of energy brings him into the position where additional energy can be obtained for the low follow-up rates in force.

Uses for Electricity

Each year the progressive farmer of Ontario finds many new uses for electrical service. It would be impossible in this Report to describe these at length, but they may be classified under the following heads:

Lighting Service—Electric lighting is safe, convenient and time saving. It adds to the comfort and attractiveness of the farm home and reduces fire hazard to a minimum. Against the cost of energy for lighting may be set the cost of coal oil or candles. Even at 6 cents per kilowatt-hour, a 40-watt lamp can be operated nearly 24 hours for 5 cents.

The progressive farmer is using controlled lighting for increasing the production of eggs and, what is more important from the viewpoint of financial returns, obtaining a greater proportion of the annual egg yield during the months when prices are high. Special forms of lamps, such as the infra-red or heat lamps, can be used to prevent rheumatism, etc., in litters of pigs, while ultra violet lamps have proven effective in preventing rickets in young pigs and chicks, eliminating losses and providing a more rapid and sturdy growth.



RURAL ELECTRICAL SERVICE IN ONTARIO

An insulated greenhouse developed by the Boyce Thompson Institute, installed at the Ontario Agricultural College by The Hydro-Electric Power Commission, for research on the application of electric light to plant growth, conducted jointly by The Hydro-Electric Power Commission and the Ontario Agricultural College

Power Service—Next to lighting, the energy used for mechanical purposes gives the most valuable service for the money expended for electricity.

In the farm home washing machines, vacuum cleaners, fans and furnace blowers contribute to making the farm home equal in comfort to one in the city. Motor-driven pumps supply water for sanitary systems and general house and farm use.

In the barn, dairy and workshop of the farm, electric motors may be employed for chopping feed, wood cutting, hay hoisting, milking, cream separating, churning and the many purposes of the farm workshop. Electric milking machines reduce labour at milking time to one-half and their regular use increases the milk flow and fat content.

The cost of electricity for operating small motor-driven appliances, such as washing machines and pumps for the use of water under pressure for sanitary purposes, is very small. With energy at the 2-cent per kilowatt-hour rate, a $\frac{1}{4}$ -horsepower motor can be operated at full load for three hours for 1 cent. As actually used in motor-driven appliances, the motors frequently operate at less than full load or, under automatic operation as in pumping and refrigeration, for only 25 to 50 per cent of the 24 hours.

Electric Refrigeration—This is a special application of power service. Its use promotes health and comfort and reduces food losses. Ice obtained from neighbouring ponds is frequently contaminated and has endangered the health of many farm dwellers. Electric refrigeration is of special assistance in connection with dairy operations. The farmer can accumulate his separated cream for a few days with safety and can improve the marketing quality of his milk by cooling. It is also useful in egg storage.

Heating Service—Under this head come: the minor appliances of hand irons, ironing machines, toasters, and hot plates, which owing to their intermittent use consume relatively small quantities of electricity per month; the major heating appliances of ranges and water heaters which need relatively large quantities of energy for their operation, and the special applications of electricity for incubating, brooding, etc., and for soil heating which only becomes economically profitable when the current used is available at specially low rates.

The electric range, although a heavy user of current, is efficient and the cost of operation is more than offset where the farmer can more advantageously employ his time than in hauling and chopping wood for the stove. It is safer and in summer provides cool cooking in comfort for the farmer's wife and also leaves her freer to undertake more useful work.

Entertainment Service—Radio—Radios provide entertainment, general information and a familiarity with current events and market prices which have done much to make life on the farm more attractive and profitable. The many applications of power in a farm workshop will provide countless hours of valuable recreation and pleasure.

Miscellaneous—The miscellaneous applications of electricity seem only to be limited by the ingenuity of the farmer in adapting this modern flexible agent to his various needs. It is used when spraying against insects and to paint the barn, for incubating, brooding and for the control of humidity and ventilation in connection with poultry raising, to prevent the freezing of vegetables, to cook supplementary food for hogs and in countless other ways.

Recent Benefits to Rural Consumers

During the year, extensive studies were made in order to ascertain whether the service charge might be reduced to all classes of consumers in order to promote the agricultural industry, and it was concluded that a further reduction would be made.

Two reductions were made as follows:

1. REDUCTION TO FARMERS ON DECEMBER 1, 1936

Class of consumer	Service	Former maximum net Service Charge per month in force since Nov., 1935	New maximum net Service Charge per month in force on Dec. 1, 1936	
			Non-farm	Farm
		\$ c.	\$ c.	\$ c.
1B	Hamlet lighting.....	1.20	1.20	....
1C	Hamlet lighting, plus range.....	1.90	1.90	....
2A	House lighting.....	1.40	1.40	....
2B	Small farm service.....	1.90	1.90	1.00
3	Light farm service.....	2.00	2.00	1.00
4	Medium farm service (one phase).....	2.15	2.15	1.61
5	Medium farm service (three phase).....	3.00	3.00	2.25
6A	Heavy farm service (one phase).....	3.70	3.70	2.77
6B	Heavy farm service (three phase).....	4.25	4.25	3.19
7A	Special farm service (one phase).....	5.55	5.55	4.16
7B	Special farm service (three phase).....	6.70	6.70	5.02

2. REDUCTION TO INCLUDE ALL CONSUMERS ON AUGUST 1, 1937

Class of consumer	Service	Former maximum net Service Charge per month in force since Nov., 1935	New maximum net Service Charge per month in force on Aug. 1, 1937	
			Regular	Summer cottages
		\$ c.	\$ c.	\$ c.
1B	Hamlet lighting	1.20	1.00	1.00
1C	Hamlet lighting, plus range	1.90	1.00	1.40
2A	House lighting	1.40	1.00	1.00
2B	Small farm service	1.90	1.00	1.40
3	Light farm service	2.00	1.00	1.40
4	Medium farm service (one phase)	2.15	1.40	1.40
5	Medium farm service (three phase)	3.00	2.25	2.25
6A	Heavy farm service (one phase)	3.70	2.50	2.50
6B	Heavy farm service (three phase)	4.25	2.50	2.50
7A	Special farm service (one phase)	5.55	3.00	3.00
7B	Special farm service (three phase)	6.70	3.00	3.00

Free Service

The free current given in recent years, to operate electric washing machines, electric pumps to provide water under pressure for household sanitary systems, and licensed, alternating-current radios, was continued during the year, up to October 31, 1937. Due to the great reduction in service charges this arrangement was discontinued on November 1, and will not be given in the future.

Maximum Consumption Charge

The Commission has found that the maximum economic limit of the first domestic use throughout the rural power districts of the Province is 6 cents per kilowatt-hour. In all rural power districts, the first consumption rate is fixed at a maximum of 6 cents per kilowatt-hour. The second rate has a maximum of 2 cents per kilowatt-hour which applies to all districts.

New Low Third Consumption Rate for Long-Hour Users

In 1934 the Commission made available for rural consumers a special energy rate for long-hour uses of power by rural consumers. This particularly affects under-earth heating (hot-beds) and heating of water. Where the extra use of energy may be obtained from the present equipment, a third follow-up rate per kilowatt-hour of 0.75 cents gross, is given in all districts. The first rate remains unchanged, except that as pointed out above it is subject to a maximum of 6 cents per kilowatt-hour, and the kilowatt-hours to be charged at the first rate remain unchanged. The number of kilowatt-hours to be charged at the second rate varies both with the class of service and the first kilowatt-hour rate. At the head of the table of rural rates at the end of this section, is a schedule which shows the class of service, the number of kilowatt-hours per month to be charged for at the first rate, and the number of kilowatt-hours at the second-rate according to the governing first rate.

Provincial Government Aids Rural Electrical Service

Assistance respecting electrical service is given by the Province to farmers and rural residents in three ways, namely:

First—A “grant-in-aid” toward the initial capital cost of supplying electrical service, amounting to 50 per cent of the cost of line and secondary equipment necessary to deliver power from the supply point of the Commission’s stations or of a city, town, village, etc., to the customer’s property. This is the maximum amount provided for by *The Rural Hydro-Electric Distribution Act*.

Second—Authority was granted to the Commission by the Province in *The Rural Power District Service Charge Act, 1930*, to fix a maximum service charge for any class of service in a rural power district. Where as may be the case in newly-established rural power districts such maximum service charge is not sufficient to meet the necessary cost of service, as specified by the Commission, the deficit is chargeable to and payable out of the Consolidated Revenue Fund of the Province. Payments made out of the Consolidated Revenue Fund for this purpose, on account of any rural power district, are charged to that rural power district in a special account—known as the “Rural Power Service Suspense Account”—in the books of the Treasurer of Ontario, and any surplus thereafter arising from any maximum service charge in that rural power district is paid to the Treasurer of Ontario and placed to the credit of the rural power district in such suspense account until the deficit is wiped out. Where a temporary deficit arises in any rural power district owing to the application of the maximum service charge, such maximum service charge must remain in force and be charged in that rural power district until the deficit is wiped out.

Third—An Act—*The Rural Power District Loans Act, 1930*—to provide for granting aid towards the installation of electrical works in rural power districts was passed in 1930. The purpose of the Act is to provide, subject to regulations, advances toward the installation of electrical services in rural power districts. Aid may be granted for the wiring from the transmission or distribution lines of the Commission into and throughout dwellings, farms, out-houses, and any other works which may from time to time be specified by the regulations. In addition to the wiring, loans may be obtained on transformers, motors, or other appliances, as may be necessary or expedient for any industrial, agricultural or domestic purpose which may be specified in the regulations.

Rural Loans

Under *The Rural Power District Loans Act, 1930*, authority was given to The Hydro-Electric Power Commission of Ontario, to finance the installation of wiring and the purchase of specified electrical equipment by rural farm consumers.

As all applications for loan are governed by regulations made subject to the provisions of the Act, quite a number fail to meet the requirements of these regulations, so that out of a total of 1,375 applications received to date, 22 were in process and 989 had been approved, involving an outlay of \$202,147.



RURAL ELECTRICAL SERVICE IN ONTARIO

Showing the response of stocks to electric light supplementing sunlight. The plants on the right received the normal winter daylight only, those on the left received in addition electric light, which increased the effective length of day



RURAL ELECTRICAL SERVICE IN ONTARIO

Snap Dragon, variety Afterglow, showing their response to electric light supplementing daylight. The plants on the left received normal winter daylight only, those on the right received in addition electric light to increase the effective length of the day

To October 31, 1937, 252 loans had been repaid in full, either through the maturing of the loan or because of the improved financial position of the borrower.

During the fiscal year ending October 31, 1937, there were received 230 applications and 155 loans were made, totalling \$29,615.

SUMMARY OF LOANS MADE TO OCTOBER 31st, 1937

Fiscal year ending Oct. 31	Applications received	Applications Approved	Amount of loans
1931.....	126	74	\$ 23,542
1932.....	226	187	40,160
1933.....	144	111	20,975
1934.....	107	81	14,855
1935.....	235	169	32,450
1936.....	307	212	40,550
1937.....	230	155	29,615
Total.....	1,375	989	202,147

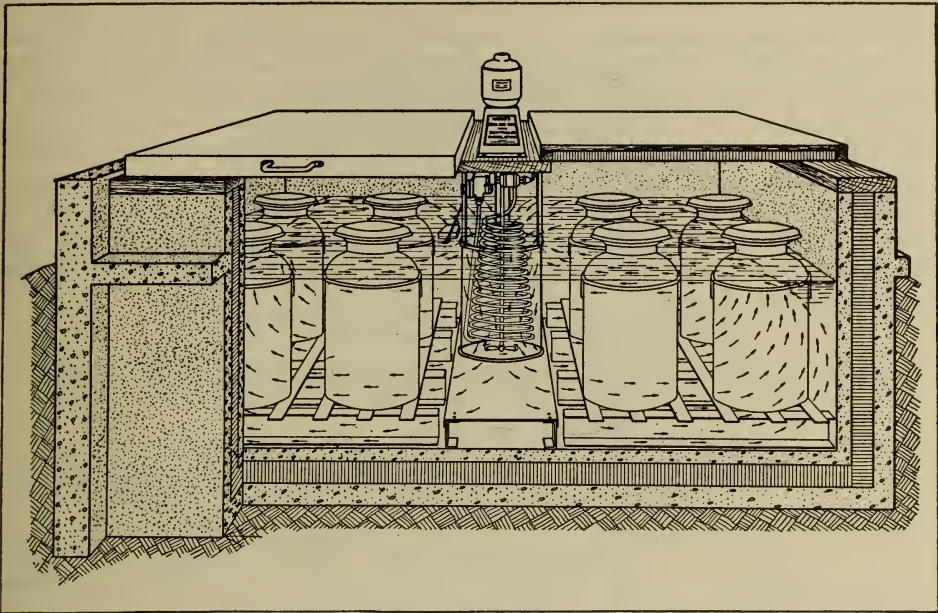
LOANS GRANTED TO CONSUMERS IN RURAL POWER DISTRICTS

System	Total to Oct. 31, 1936		Nov. 1, 1936, to Oct. 31, 1937		Total to Oct. 31, 1937	
	No.	Amount	No.	Amount	No.	Amount
Niagara.....	689	\$ 134,410	138	\$ 26,415	827	\$ 160,825
Georgian Bay.....	108	28,712	9	1,630	117	30,342
Eastern Ontario.....	31	8,015	8	1,570	39	9,585
Thunder Bay.....	1	335	.....	.....	1	335
Manitoulin R.P.D.....	5	1,060	.....	.....	5	1,060
All systems.....	834	172,532	155	29,615	989	202,147

The average loan is \$204.40.

DETAILS OF RURAL LOANS GRANTED TO OCTOBER 31, 1937

Items applied for (including installation) in loans which have been made	Totals for 834 loans made to October 31, 1936		Totals for 155 loans made during year to October 31, 1937		Totals for 989 loans made to October 31, 1937	
	Number affected	Cost to consumers	Number affected	Cost to consumers	Number affected	Cost to consumers
Service.....	275	\$ c. 15,110.28	66	\$ c. 3,604.06	341	\$ c. 18,714.34
House wiring.....	273	24,812.67	67	5,069.66	340	29,882.33
Building wiring.....	279	21,679.64	61	4,351.50	340	26,031.14
Motors.....	46	4,770.96	2	191.00	48	4,961.96
Grain grinders.....	511	98,760.97	54	10,820.00	565	109,580.97
Pumping systems.....	53	6,930.45	24	3,781.27	77	10,711.72
Milking machines.....	8	2,066.00	4	1,270.00	12	3,336.00
Washing machines.....	32	3,396.00	2	191.50	34	3,587.50
Milk coolers.....	24	4,953.00	12	2,375.00	36	7,328.00
Ranges.....	...	.....	1	165.00	1	165.00
Totals.....	...	182,479.97	...	31,818.99	...	214,298.96



RURAL ELECTRICAL SERVICE IN ONTARIO

Milk cooling by electric refrigeration with agitation is now being used by progressive Ontario farmers to their economic advantage. It is reported that this method of cooling is less expensive, more reliable and certainly cleaner than ice

Respecting the 989 loans made to October 31, 1937, the following table shows the number of loans made for each term of years:

One year term.....	18 loans	Six year term.....	10 loans
Two " "	27 "	Seven " "	79 "
Three " "	139 "	Eight " "	9 "
Four " "	30 "	Nine " "	0 "
Five " "	639 "	Ten " "	38 "

During the past two years there have been no loans made for periods longer than 5 years.

On November 1, 1937, the interest rate on rural loans was reduced from 6 per cent to 5 per cent per annum. This reduction applied to loans outstanding at October 31, 1937, as well as to new loans consummated after that date. The effect of this reduction is to lower the amount of interest ultimately due on outstanding loans by \$1,227.19.

Provincial Assistance to Rural Consumers

The extent and effect of the Province's financial assistance with respect to the distribution of power in rural power districts should be clearly understood. The Government grant-in-aid relates solely to the initial capital investment for distribution facilities in rural power districts. Having made its grant-in-aid the Government further participates in the operation of each district in that it guarantees a maximum service charge, otherwise its participation

in the operation of the property ceases. Each rural power district pays the cost of operation, maintenance and administration of its lines. The Commission also set up, until October 31, 1935, reserves for renewals (depreciation), obsolescence and contingencies on the whole of the equipment and lines, as well as sinking fund on the investment made by the Commission on behalf of the townships served. Beginning November 1, 1935, however, no further provision will be made for contingencies as it is considered that the present accumulated contingency fund is sufficient to take care of this situation; similarly the renewals (depreciation) charges have been reduced by one-eighth for the year 1936 and by one-half for the year 1937 and until further consideration is given to the problem.

**RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION DURING
THE YEAR 1937**

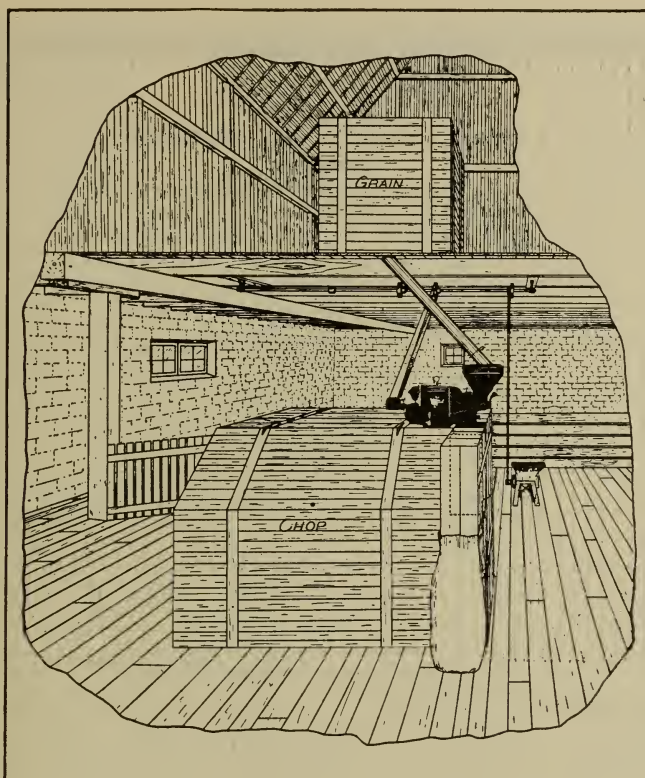
System	Miles of primary line	Net increase in number of consumers			Power supplied in October, 1937	Capital approved for extensions	
		Hamlet	Farm etc.	Total		Total	Provincial grant-in-aid
Niagara.....	1,173.54	1,610	5,541	7,151	h.p. 37,990	\$ c. 3,059,640.00	\$ c. 1,529,820.00
Georgian Bay.....	484.09	1,142	1,283	2,425	4,075	1,140,363.00	558,661.50
Eastern Ontario.....	617.60	682	2,163	2,845	8,173	1,480,766.00	740,383.00
Thunder Bay.....	10.70	40	43	83	210	25,717.00	12,858.50
Manitoulin R.P.D.....	9.90	24	19	43	137	27,818.00	13,909.00
Northern Ontario Properties:							
Nipissing District...	1.09	28	5	33	173	8,757.00	4,378.50
Totals.....	2,296.91	3,526	9,054	12,580	50,758	5,743,061.00	2,860,010.50

SUMMARY OF RURAL LINE EXTENSIONS

As Approved by the Commission from June 1, 1921 to October 31, 1937,
Constructed or Under Construction

System	Miles of primary line	Number of consumers			Capital approved for extensions	
		Hamlet	Farm, etc.	Total	Total	Provincial grant-in-aid
Niagara.....	8,753.65	26,873	31,798	58,671	\$ c. 20,222,117.89	\$ c. 10,087,778.94
Georgian Bay.....	1,593.90	6,601	3,690	10,291	3,505,513.95	1,693,543.99
Eastern Ontario.....	2,604.64	8,809	7,248	16,057	5,955,211.31	2,977,605.65
Thunder Bay.....	97.10	213	226	439	184,939.00	92,469.50
Manitoulin R.P.D.....	47.15	188	44	232	74,820.00	37,410.00
Northern Ontario Properties:						
Nipissing District..	20.55	448	56	504	93,356.00	46,678.00
Totals.....	*13,116.99	43,132	43,062	86,194	30,035,958.15	14,935,486.08

*Note—This total includes 471.30 miles of primary line under construction on October 31, 1937, required to serve 2,120 new consumers.



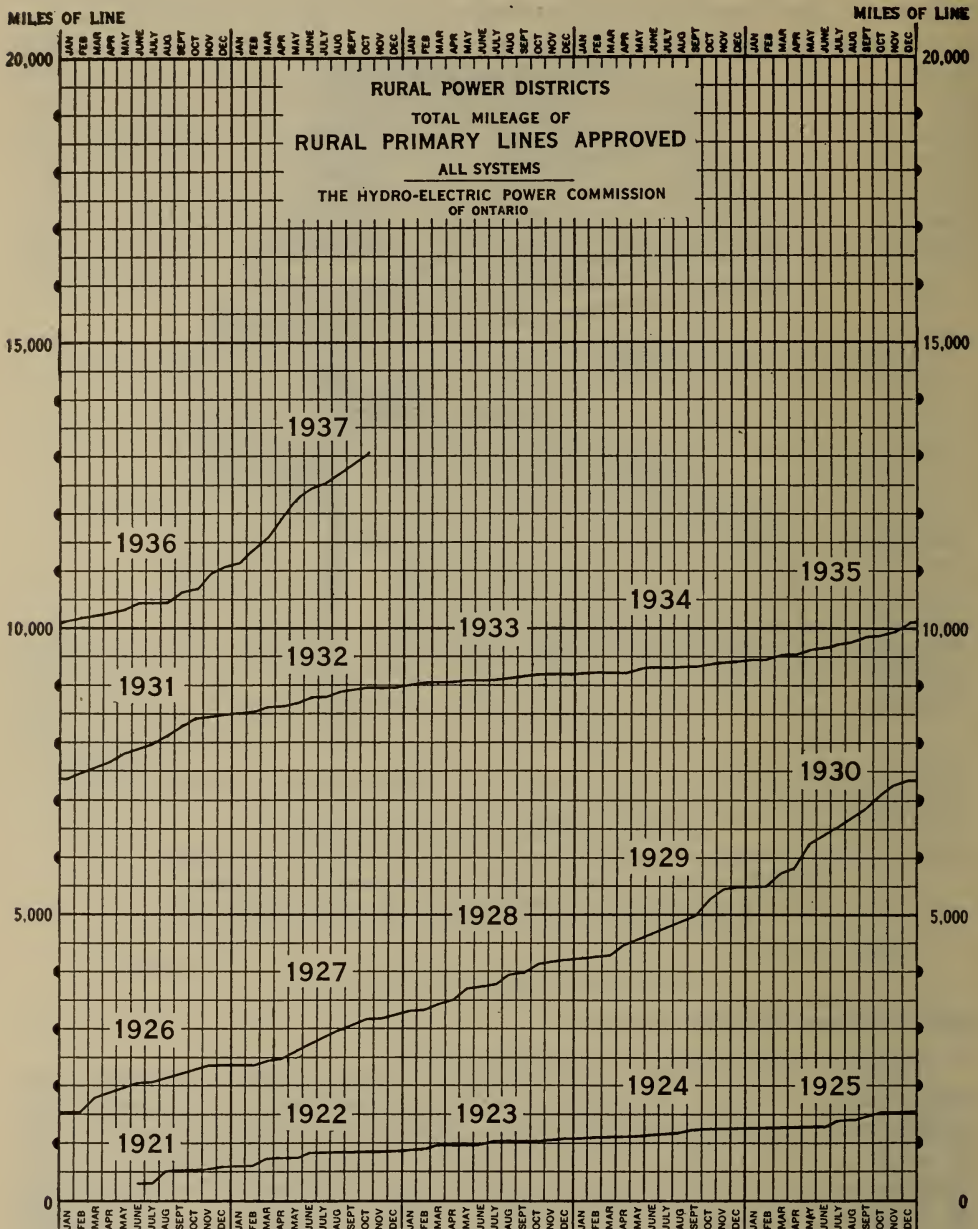
RURAL ELECTRICAL SERVICE IN ONTARIO

The utility-motor chopper set up as shown, permits chopping to be done while the operator is otherwise employed in the barn. The line shafting, when belted to the motor, will supply power for many other machines used in the barn

Rates for Rural Electrical Service

Rates to rural consumers are based upon service "at cost"—account being taken of the Provincial "grant-in-aid" for rural work and the operation of the provision for a maximum service charge—and as in some urban centres the rates are made up of two parts, a service charge and a consumption charge. In any rural power district the service charge to a consumer depends primarily upon the individual connected load or demand which determines his class rating (see "Classification of Services") but this is modified in the earlier years of operation of a rural power district by the provision respecting maximum service charge; the consumption charge is based upon a first, second and third kilowatt-hour rate, the first and second rate being determined by the cost of power at the source of supply to the rural power district, and the third rate is the same for all consumers.

Each mile of line is assumed to represent a minimum of 15 units and to each class of service is assigned a value in such units. The table on page 99



gives the new maximum net service charge per month applicable to each class of service. More than 90 per cent of the contracts entered into for farm service are either Class 2B or Class III. These, therefore, are the representative classes for individual farm service.

About one-half of the consumers in rural power districts are grouped in hamlets or small villages closely identified with rural activities, and these

These maximum rural service charges, under prevailing conditions, do not cover the costs incurred to serve rural consumers. It is anticipated, however, that the increase in the number of consumers served per mile, and increased use of power by all rural consumers, will enable the Commission more nearly to meet all costs. In rural power districts where this condition cannot be obtained, deficits arising out of the application of the maximum service charge will be paid by the Province of Ontario as a loan until the rural power districts concerned operate with a surplus.

Contracts with Consumers

For many years, power agreements made between rural customers and townships were for a twenty-year period. When rural power service was inaugurated on a principle of service at cost, this period was considered advisable for all rural contracts in order to protect the interests of the rural consumers themselves, as partners embarking in an undertaking involving collective responsibility for a substantial capital investment, to be liquidated over a period of years. The contract provision thus constituted, as between consumers, a mutual guarantee with respect to service charges. Without such assurance extensions in the early years would have been greatly hampered.

As the number of consumers on the rural lines constructed increased and rural consumers, generally, throughout the Province became better informed as to the possible uses of electric power on the farm, rural electrical service became well established.

In 1934 the Commission announced that a recommendation had been made to all township municipalities that they should pass a by-law, authorizing the Commission to reduce the term of existing and future rural contracts from twenty to five years in certain cases. These contracts were to continue in force from year to year after the expiration of the five-year period.

It is provided, however, that this change in contract term shall not take effect unless and until the Councils of all the various townships forming part of each rural power district pass by-laws approving such amendment in existing and future rural power districts.

A consumer, who has a loan under *The Rural Power District Loans Act*, shall not be entitled to avail himself of cancellation of his rural contract with the township until after all obligations under the said loan have been discharged.

This change in term of contract does not apply to "guarantee contracts."

At the end of 1937, all townships had passed the necessary by-law, and five-year agreements are available in all rural power districts.

At the end of this section a tabulation of the rural power districts shows the miles of line, the number of consumers and the rate schedules now in force for each district of the several systems.

CLASSIFICATION OF SERVICES FOR RURAL POWER DISTRICTS

When contracts between the consumer and the township have been executed, users of power in townships are supplied with electric service under general classes, according to the requirements and conditions of the individual consumer, as follows:

Class	Service	Class demand kilowatts	Phase	Volts	Fuse rating amperes (maximum)
1B	Hamlet Lighting.....	1.32	1	110	20
1C	“ “.....	2	1	220-110	35
2A	House Lighting.....	1.32	1	110	20
2B	Small Farm Service.....	2	1	220-110	35
3	Light Farm Service.....	3	1	220-110	35
4	Medium Farm Service.....	5	1	220-110	50
5	“ “ “.....	5	3	220-110	35
6A	Heavy Farm Service.....	9	1	220-110	100
6B	“ “ “.....	9	1 and 3	220-110	60
7A	Special Farm Service.....	15	1	220-110	According to load
7B	“ “ “.....	15	1 and 3	220-110	According to load

Class 1: Hamlet Service—Includes service to consumers (other than farm and power users) in hamlets, where four or more consumers are served from one transformer. Service is given under two sub-classes as follows:

Class 1-B: Service to residences or stores, including use of portable appliances, and permanently installed appliances not exceeding 1,320 watts.

Class 1-C: Service to residences or stores with electric range or ordinary permanently installed appliances greater than 1,320 watts. Where a combination of residence and store can be supplied from one service, the combination is billed as a single Class 1-C consumer. Special or unusual loads will be treated specially.

Class 2-A: House Lighting—Includes service to all consumers other than farm and power users that cannot be grouped as in Class 1.

Class 2-B: Farm Service, Small—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for single-phase motors not exceeding 2 horsepower and electric range if motors and range are not used simultaneously, on a farm of fifty acres or less.

Class 3: Farm Service, Light—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for single-phase motors not exceeding 3 horsepower and electric range if motors and range are not used simultaneously.

Class 4: Farm Service, Medium Single-Phase—Includes service for lighting of farm buildings, power for miscellaneous small equipment, and power for single-phase motors up to 5 horsepower demand and electric range if motors and range are not used simultaneously.

Class 5: Farm Service, Medium 3-Phase—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for 3-phase motors up to 5-horsepower demand and electric range if motors and range are not used simultaneously.

Class 6: Farm Service, Heavy—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for motors up to 5-horsepower demand and an electric range, or 10-horsepower demand without an electric range. Single- or three-phase service will be given at the discretion of The Hydro-Electric Power Commission of Ontario.

Class 7: Farm Service, Special—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for 3-phase motors from 10- to 20-horsepower demand and electric range. Single- or three-phase service will be given at the discretion of The Hydro-Electric Power Commission of Ontario.

Note: Classes 2B to 7B are designed primarily to cover the service requirements of farmers. Consumers other than farmers who require a more comprehensive service with greater demand than is provided for in classes 1B, 1C and 2A may obtain this service upon payment of the specified service charge listed in the table of rates.

Note: Class 2B is the service usually supplied to farms of fifty acres or less and Class 3 is the service usually supplied to larger farms. More than 90 per cent of new contracts for farm service are in one or other of these classes.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1937

Rural rates																	
Class	1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	Gross consumption charges per kilowatt-hour			Prompt payment discount on gross bill		
Monthly consumption charged for at first energy rate																	
Monthly consumption charged for at second energy rate																	
No. of kw-hrs. per month.	30	30	30	30	42	70	70	126	126	210	210						
Rural power district	No. of kw-hrs. where first energy rate is	(less than 3 cts.)	120	270	120	270	258	430	430	774	774	1290	1290				
		3 cts.	105	240	105	240	228	380	380	684	684	1140	1140				
		{ 3.1 to 4 cts.	75	180	75	180	168	280	280	504	504	840	840				
		{ 4.1 to 5 cts.	60	150	60	150	138	230	230	414	414	690	690				
		more than 5 cts.	45	120	45	120	108	180	180	324	324	540	540				
Property number	Miles of line	No. of consumers	Maximum gross monthly service charge to Summer cottages. Where the rates are below these standards, they are indicated in each instance by †										First energy rate	Second energy rate	Rate for additional		
			\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.				\$ c.	\$ c.
			1.11	1.56	1.11	1.56	1.56	2.50	2.78	2.78	3.33	3.33				3.33	3.33
			Gross monthly service charge to regular consumers														
NIAGARA SYSTEM																	
Acton	N5 D1	12.24	37	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	cents	cents	%	
Ailsa Craig	N4 D7	9.65	25	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	5	2	0.75	
Alvinston	N18 D9	15.30	30	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	6	2	0.75	
Amherstburg	N15 D3	88.55	744	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	3.5	2	0.75	
Aylmer	N11 D2	183.62	998	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	4.5	2	0.75	
Ayr	N12 D4	29.74	113	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	4	2	0.75	
Baden	N7 D1	125.20	590	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	3	1.5	0.75	
Beamsville	N44 D3	195.28	1,778	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	3	1.5	0.75	
Belle River	N15 D2	51.58	480	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	4	2	0.75	
Blenheim	N14 D3	86.30	463	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	4	2	0.75	
Bond Lake	N3 D3	190.78	1,973	1.10	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	3	1.5	0.75	
Bothwell	N14 D10	74.97	266	†1.10	1.56	1.11	1.56	1.11	1.56	2.50	2.78	3.33	3.33	5	2	0.75	
Brampton	N13 D2	71.66	247	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	4	2	0.75	
Brant	N12 D1	166.65	861	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	3	1.5	0.75	
Brigden	N18 D8	45.29	152	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	6	2	0.75	
Burford	N12 D2	73.63	380	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	4.5	2	0.75	
Caledonia	N2 D5	141.25	742	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	4	2	0.75	
Chatham	N14 D1	199.55	1,115	1.11	1.11	1.11	1.11	1.11	1.56	2.55	2.78	3.33	3.33	3.5	2	0.75	
Chippawa	N1 D7	31.96	224	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	3.5	2	0.75	
Clinton	N8 D11	82.61	462	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	5	2	0.75	

Delaware.....	N4 D3	766	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Dorchester.....	N4 D1	715	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Dresden.....	N14 D12	201	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Drumbo.....	N12 D5	353	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Dundas.....	N2 D1	946	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.25	0.75
Dunnville.....	N1 D9	276	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
		81.00	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75
		88.1.00	1.56	1.11	1.56	1.11	1.56	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.33	2	0.75
Dutton.....	N11 D3	245	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.78	3.33	3.33	6	2	0.75
Elmira.....	N7 D3	110	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	3.33	3.33	3.33	4	2	0.75
Elora.....	N5 D4	322	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Essex.....	N15 D7	607	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4.5	2	0.75
Exeter.....	N4 D6	801	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Forest.....	N18 D6	288	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	2	0.75
Galt.....	N6 D2	403	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	1.5	0.75
Georgetown.....	N5 D2	339	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Goderich.....	N8 D2	235	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Grantham.....	N44 D1	920	1.00	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
		†1.00	1.50	1.11	1.56	1.11	1.56	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
Guelph.....	N5 D3	729	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
Haldimand.....	N2 D8	563	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4.5	2	0.75
Harriston.....	N8 D5	76	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Harrow.....	N15 D4	784	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4.5	2	0.75
Ingersoll.....	N10 D3	728	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5.5	2	0.75
Jordan.....	N44 D2	449	1.06	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
		†1.06	1.56	1.11	1.56	1.11	1.56	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
Keswick.....	N3 D5	1,278	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Kingsville.....	N15 D5	1,773	1.00	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	2	0.75
		†1.00	1.56	1.11	1.56	1.11	1.56	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Listowel.....	N8 D8	391	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
London.....	N4 D2	2,580	0.90	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
		†0.90	1.56	1.11	1.56	1.11	1.56	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
Lucan.....	N4 D5	224	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Lynden.....	N2 D2	312	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Markham.....	N3 D1	1,199	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Merlin.....	N14 D15	466	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Milton.....	N13 D3	83	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Milverton.....	N8 D9	225	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Mitchell.....	N8 D7	83	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4.5	2	0.75
Newmarket.....	N3 D4	515	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Niagara.....	N1 D1	377	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75

*See footnote on page 109.

†Lowbanks extension regular rates.

§§Lowbanks extension summer cottage rates.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1937—Continued.

Rural power district	Class.....	Rural rates												Gross consumption charges energy rate†	Second rate†	Prompt payment discount			
		Property number	Miles of line	No. of consumers	Gross monthly service charge to regular consumers														
					1B	1C	2A	2B	3*	4	5	6A	7A				7B		
																		NIAGARA SYSTEM—Continued	
					\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	cents	cents	%
Norwich.....	N10 D1	149.03		693	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75
Oil Springs.....	N18 D3	32.33		153	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Palmerston.....	N8 D6	57.12		180	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Petrolia.....	N18 D5	23.09		107	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Preston.....	N6 D1	166.85		1,308	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.25	0.75
Ridgetown.....	N14 D2	119.00		812	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
St. Jacobs.....	N7 D2	80.03		447	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
St. Marys.....	N9 D1	148.29		567	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
St. Thomas.....	N11 D1	207.28		1,373	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
Saltfleet.....	N17 D1	100.58		1,877	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
Sandwich.....	N15 D1	137.39		2,237	1.00	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	1.5	0.75
Sarnia.....	N18 D4	108.13		1,575	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.33	3.5	2	0.75
Scarboro.....	N3 D2	103.48		1,158	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Seaforth.....	N8 D10	17.76		156	1.10	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Simcoe.....	N12 D6	101.08		590	1.11	1.56	1.11	1.56	1.56	1.56	2.50	2.78	2.78	3.33	3.33	3.33	4	2	0.75
Stamford.....	N44 D4	9.44		305	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
Stratford.....	N8 D4	40.73		248	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75
Strathroy.....	N4 D4	121.24		387	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Streetsville.....	N13 D1	118.74		558	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75
Tavistock.....	N8 D1	113.76		427	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Thamesville.....	N14 D11	93.01		380	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Tilbury.....	N14 D14	120.97		496	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Tillsonburg.....	N10 D4	158.77		816	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75
Wallaceburg.....	N14 D13	142.16		820	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75
Walsingham.....	N12 D7	214.13		1,060	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Walton.....	N8 D3	61.07		344	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Waterdown.....	N2 D3	80.23		1,067	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	2.5	1	0.75
Waterford.....	N12 D3	101.15		441	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Watford.....	N18 D7	32.18		102	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Welland.....	N1 D5	301.66		3,128	1.00	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
					1.00	1.56	1.11	1.56	1.56	1.56	2.50	2.78	2.78	3.33	3.33	3.33			

Woodbridge.....	N16 D1	243.15	1,306	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	2	0.75	10
Woodstock.....	N10 D2	161.28	836	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	2	0.75	10

Total, Niagara system..... 8,753.65|58,671

*See footnote on page 109. †Summer cottage rates.

‡See heading to first page of table

GEORGIAN BAY SYSTEM

		\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	cents	cents	%
Alliston.....	S32 D1	43.69	224	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Arthur.....	E13 D2	2.40	12	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Bala.....	GB13 D1	56.30	360	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Barrie.....	S4 D1	85.74	698	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Baysville.....	M10 D1	36.81	213	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Beaumaris.....	M7 D1	64.74	438	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Beaverton.....	W2 D1	41.66	451	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Beeton.....	S33 D1	1.80	5	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Bradford.....	S37 D1	36.88	123	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Bruce.....	E19 D1	97.39	463	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Buckskin.....	S24 D1	1.75	23	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Cannington.....	W3 D1	15.02	72	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Chatsworth.....	E3 D1	.....	22	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Cookstown.....	S35 D1	0.90	3	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Creemore.....	S10 D2	60.42	220	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Dundalk.....	E5 D1	6.99	28	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Elmvale.....	S7 D1	44.18	218	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5.5	2	0.75
Flesherton.....	E1 D1	20.35	100	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Gravenhurst.....	M4 D1	11.59	48	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Hawkestone.....	S9 D1	55.60	307	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75
Holstein.....	E7 D1	0.50	9	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Huntsville.....	M2 D1	79.10	333	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Innisfil.....	S31 D1	42.07	810	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Kirkfield.....	W6 D1	9.89	50	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Lucknow.....	E24 D1	7.91	29	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Mariposa.....	W9 D1	55.06	357	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Markdale.....	E1 D2	20.85	90	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Meaford.....	E14 D1	24.84	158	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Medonte.....	S18 D1	44.16	193	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Midland.....	S1 D1	66.24	426	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1937—Continued.

Rural power district	Rural rates																	Prompt payment discount		
	Class.....	Miles of con- line	Property number	No. of sumers	Gross monthly service charge to regular consumers												Gross consumption charges			
					1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	Rate for energy rate†			Second rate†	Additional
																cents	cents			
Minden.....	G37 D1	20.76	111	\$ 1.11	\$ 1.11	\$ 1.11	\$ 1.11	\$ 1.11	\$ 1.11	\$ 1.56	\$ 2.50	\$ 2.78	\$ 2.78	\$ 3.33	\$ 3.33	5	2	0.75	10	
Neustadt.....	E8 D1	0.76	7	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10	
Nottawasaga.....	S5 D1	8.22	108	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10	
Orangeville.....	E12 D1	66.57	216	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
Owen Sound.....	E2 D1	39.97	175	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10	
Port Perry.....	W12 D1	55.39	471	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
Ripley.....	E24 D2	36.92	100	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
Sauble.....	E46 D1	23.20	169	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
Shelburne.....	E10 D1	19.37	65	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
South Falls.....	M1 D1	0.10	4	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
Sparrow Lake.....	W1 D1	43.63	412	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10	
Tara.....	E15 D1	48.96	205	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
Thornton.....	S36 D1	8.14	34	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
Tottenham.....	S34 D1	6.90	14	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
Utterson.....	M8 D1	41.76	219	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
Uxbridge.....	W11 D1	65.80	229	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	
Wasaga Beach.....	S10 D1	25.06	930	†1.00	1.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.5	1.5	.....	10
Wroxeter.....	E22 D1	47.56	339	1.11	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10	

Total, Georgian Bay system., 1,593.90 10,291

†See heading to first page of table

*See footnote on page 109. †These rates apply to regular consumers and summer cottages.

EASTERN ONTARIO SYSTEM

Alexandria.....	L15 D1	37.29		180	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Arnprior.....	QM10 D1	9.32		80	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Belleville.....	C38 D1	137.20		898	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	1.5	0.75
Bowmanville.....	C23 D1	49.36		224	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Brighton.....	C6 D1	15.19		81	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Brockville.....	L3 D1	120.91		832	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Campbellford.....	C11 D1	31.30		120	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Carleton Place.....	H5 D1	1.16		4	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Chesterville.....	L5 D1	104.93		617	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75
Cobourg.....	C13 D1	143.37		680	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Colborne.....	C7 D1	59.45		303	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75
Fenelon Falls.....	C30 D1	78.62		494	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75

SECTION IV

HYDRAULIC ENGINEERING AND CONSTRUCTION

ACTIVITIES in connection with hydraulic engineering and construction covered a wide field during the year and included works both in connection with co-operative systems and the Northern Ontario properties.

Co-Operative Systems

The commencement of a new hydro-electric plant on the Musquash river at Ragged rapids to meet the growing demands of the Georgian Bay system was the chief new construction work undertaken during the year. In the Eastern Ontario system, the five small generating plants on the Trent and Otonabee rivers, recently purchased by the Commission, were overhauled and re-conditioned to enable them to function as parts of the co-ordinated supply for eastern Ontario.

Northern Ontario Properties

Construction was active in several districts of northern Ontario and included the completion of extensions to the Ear Falls and Rat Rapids plants; the inception of the work on a storage dam on the Frederick House river to improve flow conditions at the Abitibi river plants; and the commencement of work on a control dam on the Kenogami river in connection with the Long Lac diversion and on the Long Lac diversion canal and regulating dam. In the Sudbury district the recently purchased plant at Crystal Falls on the Sturgeon river was overhauled and put in good operating condition.

The great activity in the mining districts of northern Ontario has led to additional hydraulic investigations and surveys. Further reference to these is given below.

NIAGARA SYSTEM

In canvassing the various sources of power to augment the supply to the Niagara system, the question of utilizing the DeCew Falls development as a peak load plant has been under further consideration. In order that the possi-



LONG LAC DIVERSION
Canal excavation by dragline



LONG LAC DIVERSION
Looking up-stream from site of regulating dam $5\frac{1}{2}$ miles below south end of Long Lac

bilities of this source might be definitely determined, detailed surveys were made of the whole site. The area covered included the present intake, the supply canal, storage reservoirs and forebay, part of Twelve Mile creek which forms the tailrace between the plant and the old Welland canal, and the old Welland canal itself down to Port Dalhousie. The surveys were carried out during the summer of 1937.

Water Diversions

The diversion of water from other watersheds into Great Lakes' waters, which would have a bearing upon the water power available to the Niagara system from the Niagara river, has been under consideration for some time. One of the suggested schemes, known as the "Long Lac Diversion," was studied in connection with a proposal to use such a diversion to float pulpwood from the Kenogami area down to lake Superior. The scheme, as finally developed, comprises a control dam on the Kenogami river fifteen miles below the outlet of Long lake, a channel excavated from the south end of the lake across the divide, improvements in natural channels, and a regulating dam and log-slide five and one-half miles south of Long lake, through which diverted waters and pulpwood will pass to reach the Aquasabon river, and, eventually, lake Superior.

Under an arrangement with the Provincial government, work was commenced on this scheme this year. A contract was let for the construction of the diversion channel leading from Long lake over the divide into the lake Superior watershed and of the regulating dam at the southerly end of the channel. The diversion channel will be about five and one-half miles long, with sufficient capacity to handle the ultimate diversion. The regulating dam at the southerly end of the channel will consist of four concrete structures, of which one will be a bulkhead section, one a section with two stop-log sluices, one with the log sluice, and the remaining one with a stop-log sluice and a fishway.

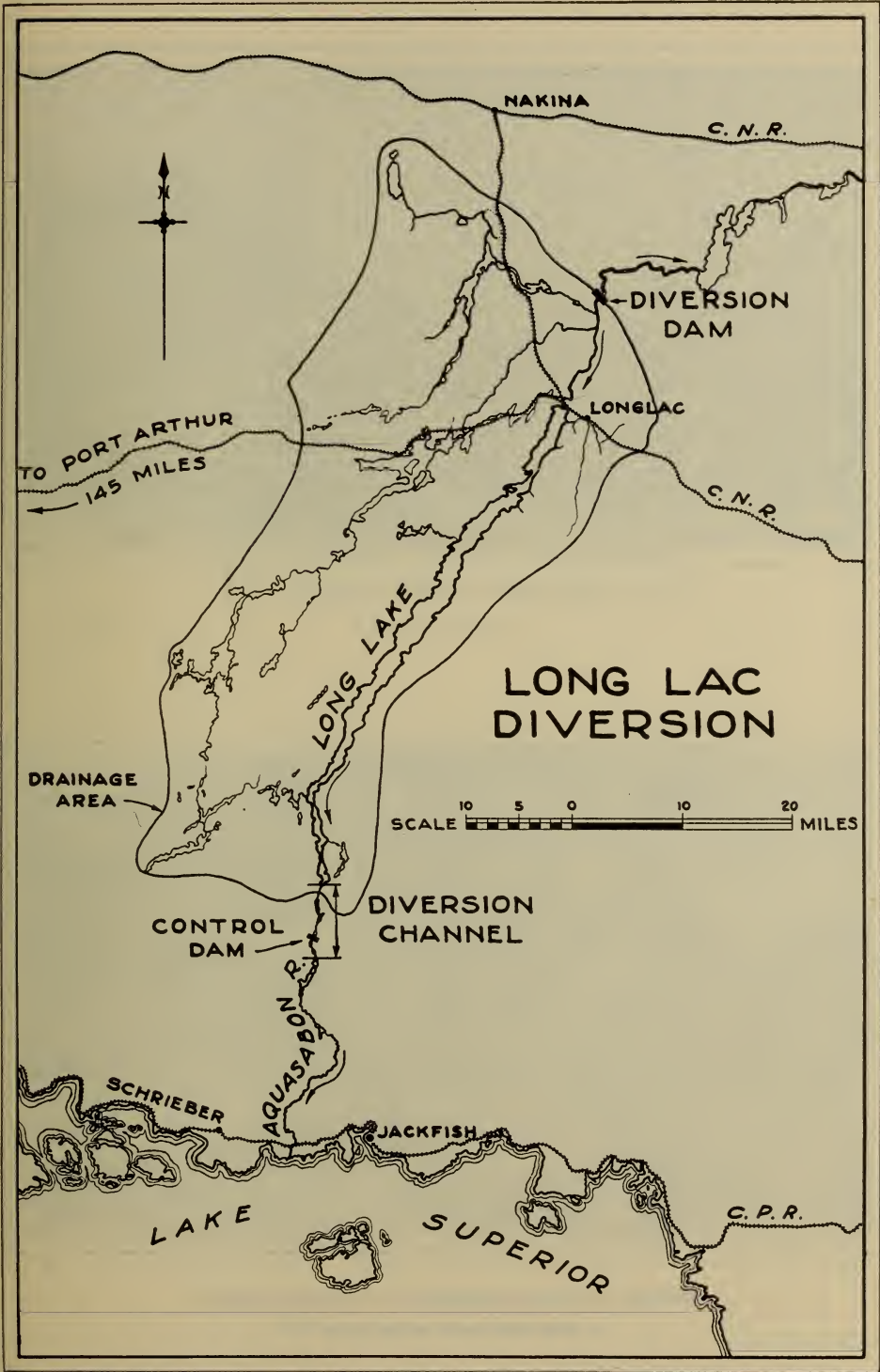
The construction of the diverting dam in the Kenogami river north of Long lake was undertaken by the Commission's own organization. This dam will be of the gravity sluiceway type. It will be about 240 feet long, made up of a bulkhead section at each end, with a section in the centre having six 16-foot sluiceways controlled by stop-logs. At normal water level there will be a depth of 22 feet of water on the sills.

GEORGIAN BAY SYSTEM

Steady growth in the power demand in the Georgian Bay system had reached the point where a new source of power was required. Plans for meeting this anticipated growth in demand were made several years ago, when surveys of the Musquash river were instituted to determine its potential power resources. These surveys indicated that three power sites are available. To meet the growing demand which in 1937 amounted to 2,900 horsepower, or about ten per cent increase over the 1936 peak load, construction of a development at Ragged Rapids was begun in the spring of 1937. When complete in 1938, this plant will add 10,000 horsepower to the peak capacity of the system.

In addition to the main dam at Ragged Rapids on the Musquash river, where the power house forms part of the structure, the development involves the improvement of the channel through Moon chute so that the Bala level can be carried down to Ragged Rapids. A control dam in the Moon river and three auxiliary dams are also required.

The hydraulic equipment for the plant is being supplied by S. Morgan Smith-Inglis Company, Limited. Two vertical units, having governor-operated





RAGGED RAPIDS DEVELOPMENT—MUSQUASH RIVER

Power-house site



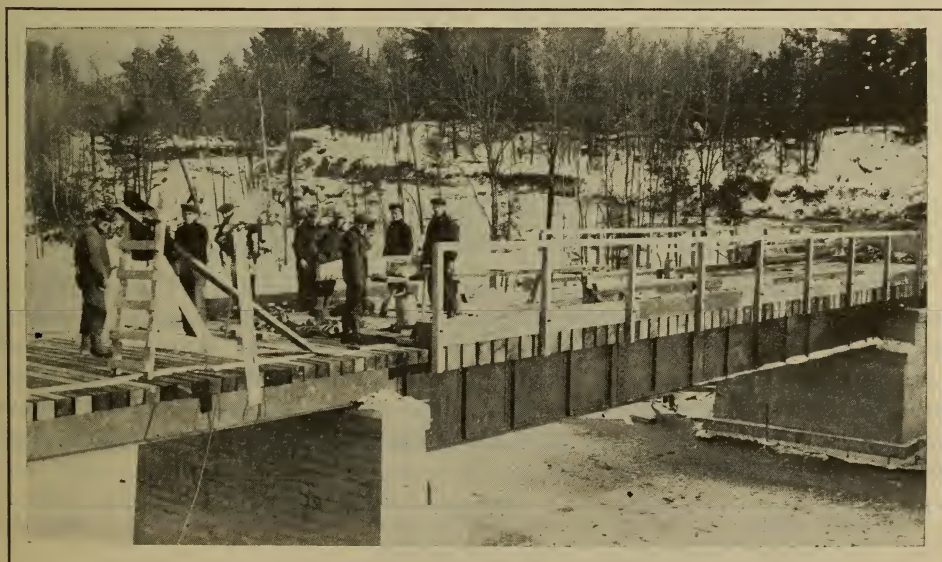
RAGGED RAPIDS DEVELOPMENT—MUSQUASH RIVER

Draft tube forms looking south



RAGGED RAPIDS DEVELOPMENT—MUSQUASH RIVER

Channel improvement at Moon chute



RAGGED RAPIDS DEVELOPMENT—MUSQUASH RIVER

Highway bridge crossing Musquash river



RAGGED RAPIDS DEVELOPMENT—MUSQUASH RIVER
Construction work on Moon river dam

adjustable blade runners, are being installed. Each is rated at 5,200 horsepower under 38-foot head and operates at 200 r.p.m.

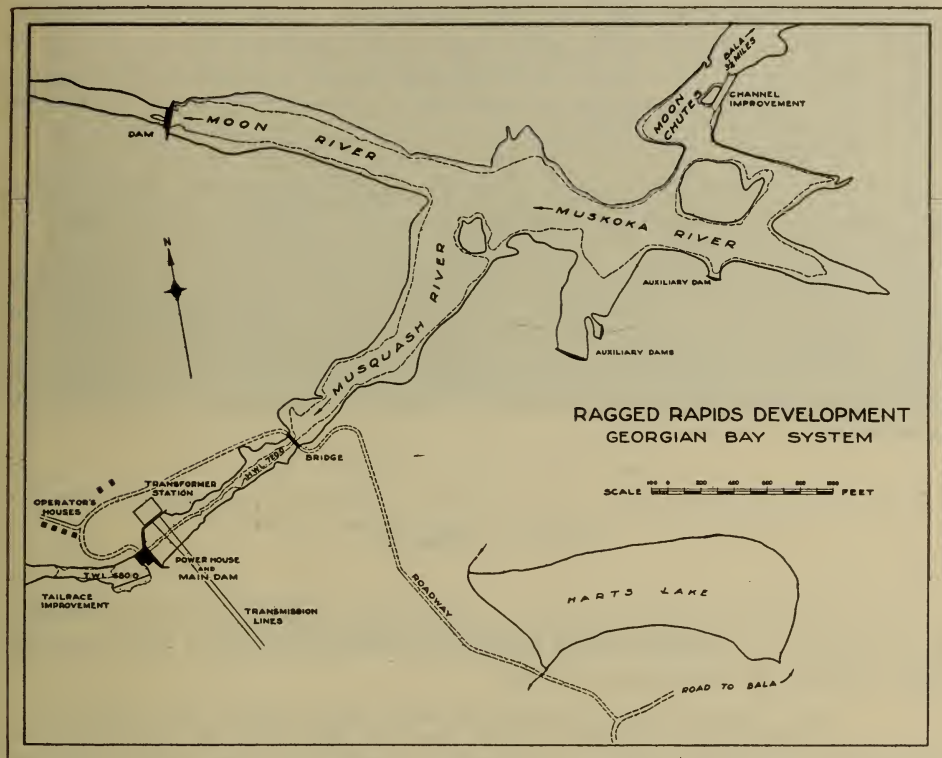
At the Eugenia development the property lines were re-surveyed, and the corners established and marked by permanent monuments.

EASTERN ONTARIO SYSTEM

Five hydro-electric generating plants, purchased by the Commission in 1937, were added to the Eastern Ontario system. These are situated at Lock 24 on the Trent canal, now known as the Douro plant; at Youngs Point and Lakefield on the Otonabee; at Campbellford-Ranney Falls on the Trent river; and at Frankford, now known as Sills Island plant. The first four plants have been overhauled and placed in good operating condition; the Sills Island plant required no immediate attention.

A new shaft and runners for unit No. 1 were installed in the Calabogie plant, and repairs were made to the headworks.

A survey of the potential power sites on the Madawaska river was undertaken in 1936. During 1937 information relating to foundation conditions at the several sites was secured, and a survey made to determine the storage capacity available at Bark lake.



NORTHERN ONTARIO PROPERTIES

Sudbury District

At the McVittie generating plant some work, which was not completed when repairs to the plant were being made last year, was put in hand during 1937. This included removal of part of the old dam and the building of a timber training crib below the new dam. Property lines were re-surveyed and permanent monuments erected to replace the posts lost or obliterated.

The Crystal Falls plant, purchased by the Commission, was overhauled and the equipment put in good operating condition.

A design was prepared for a new main dam to replace the timber crib structure, which has served the Coniston development since its inception.

Abitibi District

Following the investigations of 1936, it was decided to proceed with the construction of a dam on the Frederick House river, a tributary of the Abitibi, to store water in Night Hawk and Frederick House lakes for the benefit of developments on the Abitibi river. The site chosen is about fourteen miles below Connaught and, while rather difficult of access, is the most favourable of those available.

Construction was commenced early in the spring, and it is expected that the dam will be completed in time to impound the spring run-off of 1938.

The structure will have an overall length of about 550 feet. Commencing at the north end, it will be made up of a bulkhead section, a sluice section having nine 16-foot sluices, and a second bulkhead section tying into the high ground at the south end. The dam will impound 300,000 acre feet of water, and will increase the dependable capacity of the Abitibi Canyon plant by about 40,000 horsepower.

Patricia District

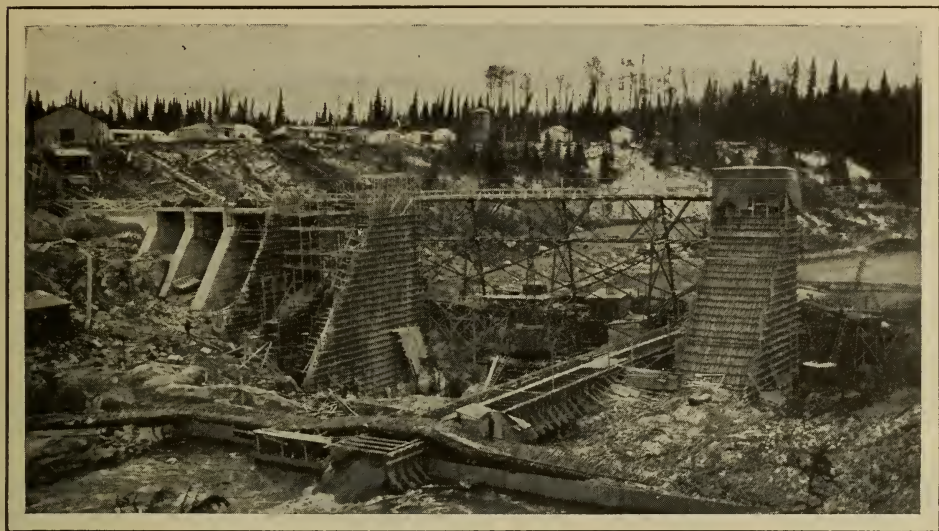
The rapid development of mines in the vicinity of Red Lake made necessary the installation of a second 5,000 horsepower unit at Ear Falls. This extension was completed in the summer of 1937.

It is of particular interest to note that the first unit in this plant constructed by the Commission was placed in operation in December 1929 and, except for a few very brief shut-downs for inspection purposes, has been in continuous operation since that date. When unit No. 2 was put in operation, advantage was taken of the opportunity to overhaul unit No. 1 and make necessary repairs.

St. Joseph District

The capacity of the plant at Rat Rapids was increased in 1936 by the addition of a second unit. Now, owing to the rapid growth on the mining load, the demand for power is again approaching the plant's capacity, and it has become necessary to seek means of adding to the power supply. To this end, a further survey of a possible power site at Triple falls on the Albany river, investigated some years ago, was carried out, and preliminary designs have been made for a development at this site.

The question of securing additional water at the Rat Rapids generating plant, by developing storage on lake Pashkokogan and diverting water into lake St. Joseph, has been considered. Surveys made in 1936 were supplemented by further field work.



FREDERICK HOUSE RIVER DAM

View from down-stream side on October 13, 1937, showing No. 2 section of south gravity wall completed.
Note the timber flume by-passing water from above the upper coffer dam

HYDRAULIC INVESTIGATIONS

A study was made of the power possibilities of the French river.

The town of Sioux Lookout has from time to time considered the question of a power development to serve its needs, and has requested assistance from the Commission. Investigations were made during the year of possible sites.

Flooding in the valley of the Thames river has from time to time caused considerable loss to certain municipalities in that area. The extreme floods of 1937 resulted in requests from the municipalities on the river for studies of works to control the floods and reduce or eliminate damage. At the request of the Provincial government, preliminary investigations were made.

SECTION V

ELECTRICAL ENGINEERING AND CONSTRUCTION

(STATION SECTION)

TO take care of actual load growth and definite demand for service extensions, much construction work was undertaken in 1936-7. Most of the work carried out was based upon previous studies and estimates which had shown the most advantageous method of providing the necessary increased facilities.

Co-Operative Systems

In the Niagara system the transformer capacity of the 110,000-volt stations at Hamilton, Thorold, London and York is being increased.

In the Georgian Bay system an additional section was changed over to 38,000-volt operation. This involved extensive alterations to the auto-transformer stations at Eugenia and Waubaushe and the construction of a 6,000-kv-a auto-transformer station at Fergusonvale. A 9,000-kv-a development is being made at Ragged Rapids on the Musquash river.

In the Eastern Ontario system five generating plants, three near Lakefield, one at Ranney Falls and one near Frankford, were purchased, rehabilitated and connected into the Central Ontario district. A 15,000-kv-a, 110,000-volt station was erected near Trenton.

In the Thunder Bay system, Long Lac area, a 9,000-kv-a, 110,000-volt transformer station is being erected. A 450-kv-a distributing station was installed at Geraldton and a 200-kv-a distributing station at Beardmore.

Northern Ontario Properties

Construction work in connection with the Northern Ontario Properties was again active. In the Sudbury district the newly purchased Crystal Falls plant on the Sturgeon river was rehabilitated and connected to the Sudbury district, and a 2,000-kv-a static condenser was installed at Sudbury distributing station. In the Abitibi district an additional 4,500-kv-a, 110,000-volt transformer bank was installed at Timmins. At Ear Falls generating station, in the Patricia district, the second 4,500-kv-a unit was placed in service.

Throughout the various systems and Northern Ontario Properties, ten new distributing stations were installed and the capacity of nineteen others was increased.

NIAGARA SYSTEM

Generating Stations on Niagara River

At Queenston generating station the ventilation of the control-room was improved.

At Ontario Power generating station a mechanical stoker was installed on a boiler supplying steam for heating the gatehouse and gates.

Transformer and Distributing Stations

In order to supply power to Thorold from 110,000-volt circuits, the two 15,000-kv-a banks of transformers referred to in last year's Report were placed in service in Thorold transformer station. A third bank of similar transformers, obtained from system reserve, was also placed in service. An oil circuit-breaker was installed in the 12,000-volt feeder to Merriton.

At Welland transformer station the bank of three 2,400-kv-a transformers transferred from Thorold was installed and placed in service.

At Beamsville a new distributing station was erected. Three new 250-kv-a transformers were installed and the station placed in service on January 20.

At St. Davids distributing station the 300-kv-a, 3-phase transformer released from Beamsville was installed and placed in service on October 1, in parallel with the original 300-kv-a transformer. This released a 150-kv-a unit which was transferred to system reserve and stored at St. Thomas.

Changes were made in the metering equipment at Merriton in order to measure on the same meter the power supplied to Interlake Tissue Mills Company and that supplied to the town.

At St. Catharines Burgoyne switching station, 13,200-volt switching equipment was installed for the control of an additional line from Thorold transformer station.

To supply power to Jordan rural power district equipment for an additional 4,000-volt feeder was installed at Beaver Dams distributing station. Improved fuses were placed on the 4,000-volt Stamford rural feeder and on the 12,000-volt feeders.

Hayes Wheel distributing station was dismantled. The three 250-kv-a transformers were stored on the property.

Hamilton and Dundas District—At Hamilton-Stirton transformer station a second 15,000-kv-a bank of transformers is being installed. Two new 5,000-kv-a, single-phase transformers have been purchased and will be used with the existing spare unit of similar rating to complete the bank. A grounding transformer was purchased for installation on the 13,200-volt bus. Switching equipment is being installed for a second 110,000-volt circuit and for five 13,200-volt feeders.

At Hamilton Beach transformer station the necessary switching equipment is being installed for a second 110,000-volt circuit to Hamilton-Stirton transformer station. Changes have been made in the metering equipment on the 13,200-volt feeders.

To supply a portion of Dundas and Caledonia rural power districts, Ryckman distributing station was erected near Southcote. Three 75-kv-a transformers were obtained from system reserve and the station placed in service on February 16, 1937.

Toronto and York District—Preliminary engineering studies for an increase in the capacity of the Toronto-Leaside transformer station were made.

At Toronto Bridgman-Davenport and Toronto Wiltshire transformer stations additional features were added to the relaying equipment on the transformer protection. At the former station improvements were made in the lighting of the control-room.

A second bank of three 5,000-kv-a transformers, obtained from system reserve, is being installed at York transformer station.

At Woodbridge distributing station improvements were made in the relaying equipment.

At Sutton distributing station and at Stouffville metering station improved instrument-transformers were installed, and in the former station the graphic wattmeters were replaced by more suitable instruments.

A new station was erected for Weston Public Utilities Commission to supply power to Moffats Limited. Three 300-kv-a transformers originally in the Weston municipal station were used. The station was placed in service on April 10. Three new 500-kv-a transformers were purchased and installed at the Weston municipal station, replacing the 300-kv-a units.

At Hornby a new distributing station was installed to supply power to the new Canadian Broadcasting Corporation station. Three new 150-kv-a transformers were purchased and the station placed in service on October 26.

Improvements were made in the relaying and metering equipments at New Toronto distributing station.

At Brampton municipal station the low-voltage distribution was changed from 2,300 to 4,000 volts. The circuit-breakers on the two 13,200-volt circuits and four 4,000-volt feeders were replaced by larger capacity circuit-breakers and two of the original 4,000-volt breakers were reinstalled on the circuits to the transformer banks.

A new municipal station is being built for Forest Hill village. Two 3,000-kv-a, 3-phase transformers, and 4,000-volt switching equipment were purchased and are being placed outdoors. Two 4,000-volt feeders and the station-service equipment will be housed in a metal cubicle and the 13,200-volt equipment will be mounted on a steel-structure. The station should be placed in service before 1938.

London District—At London transformer station the third bank of three 5,000-kv-a transformers is being installed. The spare transformer at the station and two duplicate units from system reserve will be used.

The capacity of Delaware distributing station was increased. Three new 250-kv-a transformers were placed in service on July 18, replacing three 100-kv-a units.

At Lucan distributing station the capacity was increased. Three 100-kv-a transformers released from Delaware distributing station were placed in service on September 19. The original three 75-kv-a transformers were transferred to system reserve.

Guelph District—At Guelph transformer station a pipe-line was installed to connect the city water-system to the station water-system. A compartment to house the water meter was built outside the building.

The 13,200-volt lightning-arresters at Acton distributing station were replaced by modern units.

Kitchener District—At Kitchener transformer station improvements were made in the relaying equipment on the 13,200-volt feeders.

Woodstock District—The relaying equipment on the 13,200-volt bus at Woodstock transformer station was improved.

At Woodstock rural station a bank of three new 250-kv-a transformers was installed, replacing the bank of three 150-kv-a transformers which were transferred to system reserve.

Changes were made in the 13,200-volt switching equipment at Tillsonburg rural station.

At Burgessville metering station the lightning-arresters and demand-meter were replaced with modern-type equipment and the station ground-connections were improved.

Brant District—At Ayr distributing station the bank of three 150-kv-a transformers were replaced by a bank of three 250-kv-a transformers. Disconnecting-switches were installed on each side of the oil circuit-breakers on the two 4,000-volt feeders. The 4,000-volt lightning-arresters were replaced by new, outdoor units.

The transformer capacity at St. Williams distributing station was increased when the three 150-kv-a transformers were replaced temporarily by three new 250-kv-a units, pending construction of a new station.

At Simcoe municipal station the current-transformers in the Simcoe rural feeder were replaced by larger capacity units.

Kent District—At Kent transformer station the pipe-line connecting Chatham's water-system to the station water-system was replaced for a distance of more than 1,200 feet.

The bank of three 75-kv-a transformers at Rondeau distributing station was replaced by three 150-kv-a transformers released from Woodstock rural station.

At Wallaceburg distributing station changes were made in the metering equipment.

Essex District—At H. J. Heinz Company metering station equipment was installed to meter the power supplied to the company's new station.

Improvements were made in the metering equipment at Belle River distributing station. Larger capacity current-transformers were installed on the rural feeder and six lightning-arresters on the 4,000-volt feeders were replaced by modern units.

GEORGIAN BAY SYSTEM

A power site is being developed at Ragged Rapids on the Musquash river and a generating and transformer station erected for the supply of additional power to the Georgian Bay system. Two 4,500-kv-a, 60-cycle, 200 r.p.m., 6,600-volt vertical-shaft generators have been purchased for delivery and installation in the spring of 1938. A bank of three 3,000-kv-a, single-phase transformers with a spare unit and 6,600-volt metal-clad switch-gear have already been ordered and the station should be in service by the summer.

A rural station was erected at Minden to supply single-phase power to the surrounding rural district at 6,600-volts. A 75-kv-a, 2,300/6, 600-volt transformer obtained from system reserve was installed and the station was placed in service on July 17.

A section of the system was changed from 22,000-volt to 38,000-volt operation.

Severn District—An auto-transformer station was erected at Fergusonvale and two 3,000-kv-a auto-transformers previously at Waubaushene were placed in service there in July. Two 15-kv-a, 22,000/110-220-volt transformers were purchased to supply power for station service and for voltage indication. A cottage is being built for the operator.

At Waubaushene auto-transformer station six new oil circuit-breakers were installed in the 38,000-volt and 22,000-volt circuits and arranged for automatic operation and control of the station. Two 15-kv-a, 22,000/110-220-volt transformers were purchased to supply power for station service. The two 3,000-kv-a auto-transformers which were moved to Fergusonvale were replaced with two 1,500-kv-a auto-transformers previously installed at Eugenia generating station.

At Waubaushene distributing station the bank of three 25-kv-a transformers was replaced by a bank of three 50-kv-a transformers previously released from Paisley distributing station. The distribution voltage was changed to 4,000 volts and a second feeder added. The necessary 22,000-volt and 4,000-volt switching equipment was also installed and the station placed in service in July.

Changes were made in the switching equipment at Collingwood distributing station and three new 22,000-volt lightning-arresters installed.

At Innisfil distributing station the transformer capacity was increased. The bank of three 150-kv-a transformers was removed and three 250-kv-a transformers installed and placed in service on June 25. The 150-kv-a units were transferred to system reserve.

At Coldwater distributing station the equipment was changed to permit the distribution of power at 4,000 volts instead of 2,300 volts.

At Barrie distributing station a 12-cell storage-battery and trickle-charger were installed to provide direct-current power for operating the circuit-breakers. Changes were made in the relays to improve the automatic-control features on the 22,000-volt circuit-breakers.

Transformer capacity was increased at Alliston distributing station; some obsolete equipment was replaced and a new chain-link fence erected. The bank of three 75-kv-a transformers was replaced by three 125-kv-a transformers.

The original bank is now in service to supply power for construction work at Ragged Rapids development.

At Thornton, Tottenham and Cookston distributing stations concrete pads were installed for the transformers, some obsolete switching equipment and lightning-arresters were replaced with new equipment and standard chain-link fences erected around the station grounds. A new fence was also erected around Bradford distributing station site.

Eugenia District—In the Eugenia generating station two new 3,000-kv-a, 38,000/22,000-volt auto-transformers equipped with under-load tap-changing equipment were installed on the existing concrete pads, replacing two 1,500-kv-a units. The latter were moved to Waubaushene where they were installed as part of the arrangement for changing a larger portion of the system transmission voltage to 38,000 volts. The new auto-transformers were placed in service in August.

At Hanover frequency-changer station improvements were made in the ventilation of the building and frequency-changer. To provide additional cooling water a deep well was drilled on the property and the necessary pumping equipment and pipes installed.

The water-cooling system for the transformers at Owen Sound distributing station was improved.

At Meaford distributing station the bank of transformers was re-connected for 38,000-volt operation and voltage-regulators were installed on the low-voltage side.

At Paisley distributing station the bank of three 50-kv-a transformers was replaced by three 150-kv-a transformers released from Southampton generating station. This bank of transformers supplies power to a portion of Bruce rural power district at 8,000 volts while a new bank of three 50-kv-a transformers was purchased and connected 8,000/4,000 volts to supply power to the town of Paisley. The new equipment was placed in service in June.

The Bruce rural metering equipment, at the southern limits of Port Elgin, was dismantled.

At Flesherton rural station new lightning-arresters and a fuse-switch were installed.

Wasdells District—The Uxbridge rural metering equipment at the western limits of the town was dismantled, as power for the rural load is now being supplied direct from Uxbridge distributing station.

EASTERN ONTARIO SYSTEM

110,000-volt Transformer Stations

A new 110,000-volt station known as Sidney transformer station was built near Trenton to provide an additional tie for the supply of power from the 110,000-volt circuits to the Central Ontario district. A bank of three new 5,000-kv-a transformers with spare unit was purchased and placed in service on October 11. The station will be completed early in 1938.

At Howard Smith Cornwall (Steam) transformer station disconnecting-switches were installed in the circuits to the steam-generator electrodes.

Central Ontario District—Three generating stations at Lakefield, Young's Point and Lock 24 on the Otonabee river, purchased from Canada Cement Company were rehabilitated and connected into service on the Central Ontario district. At Lakefield, two 1,500-kv-a, three-phase, 44,000/2,400-volt transformers, purchased from Peterborough Public Utilities Commission, were installed outside the generating station and connected from the generator bus to a new 44,000-volt circuit to Peterborough.

Two power-plants on the Trent river were purchased from Quinte and Trent Valley Power Company. One of these plants known as Sills Island generating station is situated near Frankford and contains two 1,200-kv-a, 6,600-volt generators and room for an additional similar unit. At the present time power is transmitted to Dam No. 5 plant (Frankford) at generator voltage. An order has been placed for a 3,000-kv-a, three-phase transformer which will be installed at Sills Island generating station to step-up the generator voltage and supply power to the system at 44,000 volts. The second plant consists of a 900-kv-a generator in a building close to Ranney Falls generating station. The generator is being made ready for service with remote control equipment for operation from Ranney Falls control-room. A 750-kv-a, 2,400/44,000-volt, three-phase transformer will be transferred from system reserve to this station.

At Sidney generating station the necessary switching equipment is being installed for a 44,000-volt circuit from Sills Island generating station.

At Ranney Falls generating station improvements were made in the lighting of the control-room.

At Seymour generating station a 24-volt storage-battery with trickle-charger was installed to supply power for the operation and control of the circuit-breakers. Improved relays are being installed on the 2,400-volt feeders.

A new 3,000-kv-a transformer is being installed at Kingston distributing station to replace one of the existing 1,500-kv-a units.

At Auburn switching station equipment for the control of a new 44,000-volt circuit to Lakefield generating station was installed.

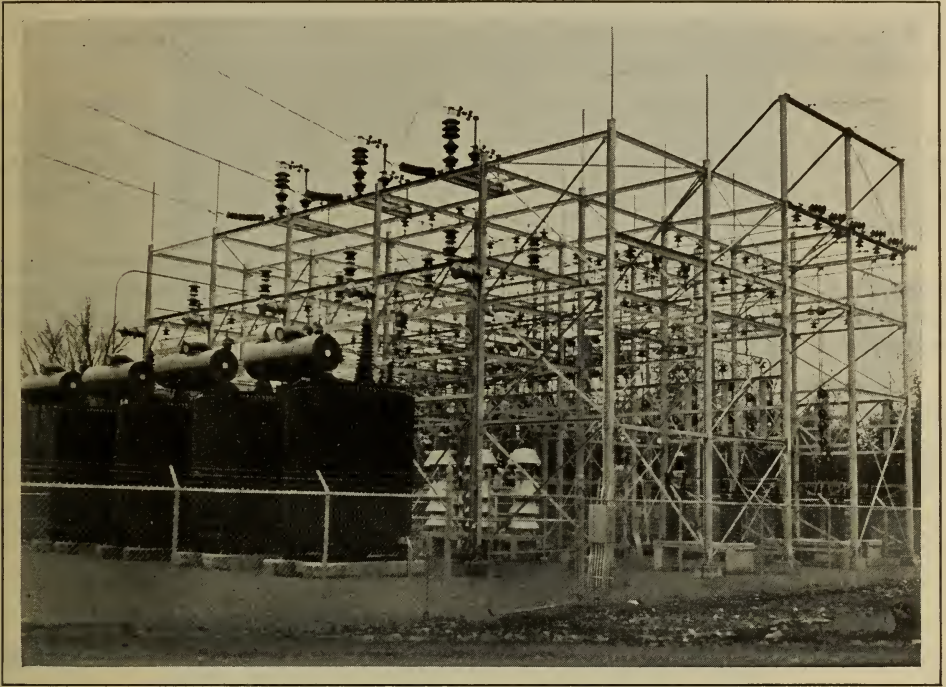
At Cataragui distributing station the transformer capacity was increased and equipment for two additional 8,000-volt feeders installed. A bank of three new 250-kv-a transformers was provided, replacing the original three 100-kv-a units.

The Peterborough Public Utilities Commission was given assistance in the purchase and installation of an additional 3,000-kv-a three-phase transformer and switching equipment for its municipal station.

St. Lawrence District—At Brockville distributing station the transformer capacity was increased. A 1,500-kv-a, three-phase unit was purchased from Peterborough Public Utilities Commission and installed in a pocket previously occupied by a 750-kv-a transformer. The released transformer was moved to Smiths Falls distributing station.

At Lyn distributing station the transformer capacity was increased and equipment installed for two additional 8,000-volt feeders. A bank of three new 250-kv-a transformers was installed and the original three 100-kv-a transformers were transferred to system reserve.

Madawaska District—At Galetta generating station the necessary equipment was installed for a 2,300-volt three-phase feeder to Kingdon mine.



SYDNEY TRANSFORMER STATION

At Renfrew distributing station disconnecting-switches were installed in the 4,000-volt, town-line feeder.

At Carleton Place distributing station the second 750-kv-a, three-phase transformer was installed and placed in service.

At Smiths Falls distributing station an additional 750-kv-a transformer recently released from Brockville distributing station is being installed. A new 26,400-volt air-break switch is also being provided.

Ottawa District—A bank of three new 200-kv-a transformers was installed at Ottawa rural station in parallel with the original bank. A duplicate transformer which had been held in system reserve was provided as a spare unit.

THUNDER BAY SYSTEM

At Alexander generating station mechanically-operated ventilators were placed in the east wall. Relaying equipment to protect a 110,000-volt circuit to Long Lac transformer station was provided.

At Cameron Falls generating station equipment for a 110,000-volt circuit to Long Lac transformer station is being installed.

On the 1,500-kv-a transformers at Cameron Falls transformer station fans were installed to facilitate cooling and increase capacity. A duplicate transformer was also purchased as a spare unit.

A 110,000-volt step-down transformer station is being constructed at Long Lac to enable power to be received at this voltage from the bus at Cameron Falls generating station. A bank of three new 3,000-kv-a, 110,000/46,000-volt

transformers should be in service early in 1938. A grounding transformer which will also supply power for station service at 120 volts, is being installed in the 44,000-volt bus. An operator's cottage is being provided.

A distributing station was installed at Geraldton to supply power to the townsite. A bank of two 150-kv-a, 44,000/2,400-volt transformers was transferred from Georgian Bay system reserve for connection in open-delta and the station was placed in service on February 28. On September 19, when further capacity was required the third transformer was installed in the bank.

At Beardmore a distributing station was installed to supply power to the townsite. Two 100-kv-a, 44,000/2,400-volt, single-phase transformers were obtained from Georgian Bay system reserve and connected in open-delta. The station was placed in service on July 22.

Metering equipments were installed to measure the power supplied to MacLeod-Cockshutt Gold Mines Limited, Jellico Consolidated Gold Mines, Bankfield Consolidated Mines Limited, Hardrock Gold Mines Limited and Sturgeon River Gold Mines.

For Lake Sulphide Pulp Company Limited equipment was installed to enable power to be delivered for construction work at Red Rock near Nipigon.

NORTHERN ONTARIO PROPERTIES

Crystal Falls plant on the Sturgeon river was purchased from the Abitibi Power and Paper Company and rehabilitated to supply power to the Nipissing and Sudbury districts. The plant contains four 2,125-kv-a, 60-cycle, 2,300-volt generators and a bank of three 3,000-kv-a transformers and was placed in service on the Commission's system on September 1.

Nipissing District—North Bay rural station was installed at the south-westerly limits of the city to supply 8,000-volt power to a portion of North Bay rural power district. A bank of three new 100-kv-a transformers was installed with the necessary switching and metering equipment. The station was placed in service on July 9.

Sudbury District—At Sudbury distributing station a static-condenser of 2,000-kv-a capacity is being installed.

Abitibi District—Pamour transformer station, under construction last year, was completed and placed in service on December 20, 1936.

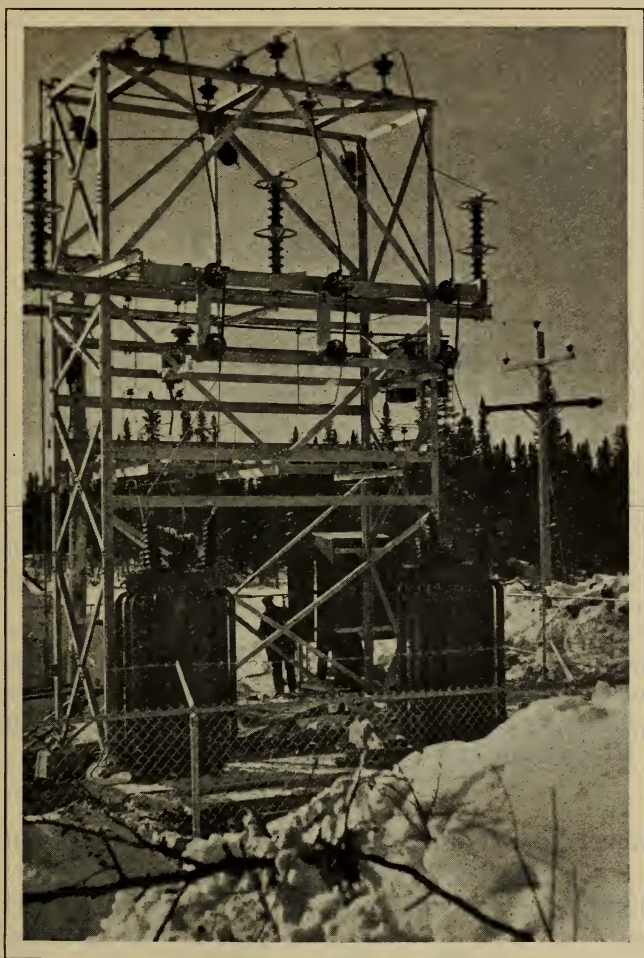
At Timmins transformer station a second bank of three 1,500-kv-a transformers was purchased and installed on October 24, 1937.

At Kirkland Lake transformer station a special room was equipped for testing and calibrating meters.

Mace Gold Mines distributing station was installed near Timmins to supply power to the mining company. A bank of three 500-kv-a transformers was used and the station placed in service on August 19.

King Kirkland distributing station was installed to supply 2,300-volt, single-phase power to the townsite from a 12,000-volt circuit. A 75-kv-a, single-phase transformer with the necessary switching equipment was placed in service on December 22, 1936.

Equipment to meter the power supplied to Kir Vit Mines Limited, Kerr Addison Gold Mines Limited, Buffalo Ankerite Gold Mines Limited, Porcupine



GERALDTON DISTRIBUTING STATION

Lake Gold Mines Company Limited, Moneta Porcupine Mines Limited and Golden Gate Mining Company, was installed.

Patricia District—The installation of the second generating unit at Ear Falls development was completed and the machine placed in service on June 28, 1937. An additional bank of three 1,500-kv-a transformers was purchased and installed. Seven houses, a school, a radio building, a recreation building and a food-storage building are being constructed for use by the operating staff at the development. Water supply, sewage disposal and electric service are being provided.

Equipment for measuring the power supplied to Madsen Red Lake Gold Mines Limited was installed.

St. Joseph District—Improved ventilation is being provided in No. 1 generating station at Rat Rapids.

Equipment to meter the power supplied to Albany River Gold Mines Limited was installed.

SECTION VI

TRANSMISSION, DISTRIBUTION AND RURAL SYSTEMS

TRANSMISSION SYSTEMS

INCREASED demands and new loads have made necessary many betterments and additions to the Commission's transmission systems during 1937, the most important being in the Eastern Ontario and Thunder Bay systems and in the Northern Ontario Properties.

At a cost of approximately \$2,193,000, a total of 460.33 miles of transmission line were placed in service, as indicated in the following tabulation; of this total, 125 miles were acquired by purchase, chiefly 44,000-volt lines in the Sturgeon River-Long Lac area.

**MILEAGE OF TRANSMISSION LINES PLACED IN SERVICE,
YEAR ENDED OCTOBER 31, 1937**

	Niagara system	Georgian Bay system	Eastern Ontario system	Thunder Bay system	Northern Ontario Properties	Totals
	miles	miles	miles	miles	miles	miles
110,000-volt to 220,000-volt lines.....	1.50	.....	120.32	94.88	8.15	224.85
38,000-volt to 44,000-volt lines .....	.....	16.46	7.67	115.09	.....	139.22
11,000-volt to 26,400-volt lines.....	23.65	.....	9.82	.....	62.79	96.26
Totals	25.15	16.46	137.81	209.97	70.94	460.33

In addition, revisions and betterments were made in all systems where required.

A map showing the transmission lines and stations of the Commission will be found at the back of this Report and summary tabulations respecting transmission lines, in Appendix II.

The following synopsis shows, by systems, the work completed during the year.

NIAGARA SYSTEM

High-voltage Lines

A junction was established in the existing lines on the west side of the Welland Ship Canal at Allanburg and 1.5 miles of double-circuit, 110,000-volt, steel-tower line were built to connect the Thorold transformer station. This line replaces the former 60,000-volt supply.

26,400-volt Lines

A single-circuit, wood-pole line was rebuilt between Keswick junction and Keswick distributing station, a distance of 0.80 mile.

A section of the Tilbury-Fletcher junction line was relocated on account of highway widening work.

Reinforcement was completed on the Sebringville junction-Goderich distributing station wood-pole line by the addition of guys, a total distance of 54.91 miles; defective insulators were replaced and units were added at dead-end positions. Air-break switches were replaced and the structure revised at Mitchell junction.

The ground wire was removed and conductors rearranged to pole-top-pin construction on the Sebringville junction-Harriston line, a total distance of 44.42 miles.

On the double-circuit, Seaforth junction-Seaforth municipal station line conductors were removed and replaced by a single circuit on pole-top-pin construction, a distance of 1.5 miles.

Air-break switches at Clinton junction were replaced by a modern type.

Between Mitchell junction and Dublin distributing station, Stratford transformer station and Tavistock distributing station, some poles were replaced and others stubbed in order to provide space for rural power districts' equipment.

Nineteen poles were replaced in the wood-pole telephone line near Drumbo to accommodate rural power district circuits.

Between East Windsor junction and the Hydro-Electric railway East Windsor station, a distance of 0.81 mile, the double-circuit, 3/0 aluminum conductors were removed and replaced by a single-circuit of 3/0 aluminum cable, steel-reinforced. New disconnect switches were installed at the junction.

The 26,400-volt, wood-pole lines, totalling 9.96 miles, used to transmit power to stations in the city of Windsor, have been turned over to the Windsor Public Utilities Commission for administration.

Additional pole space was provided for Amherstburg rural power district attachments by the replacement of 15 poles in the Petrimoux-Comet junction line.

The air-break switch structure at the Heinz Company, Leamington, was moved to its permanent location upon the completion of the new substation.

Poles were replaced in the vicinity of Forest and Petrolia to provide space for rural power districts' attachments.

Other Lines

Portions of trunk-telephone, wood-pole line in the vicinity of Dundas were rebuilt to provide pole space for Dundas rural power district circuits, a total distance of 7.5 miles.

Power and telephone connections were made to the new 13,200-volt, Ryckman distributing station.

A short 13,200-volt tap, complete with line switching, was constructed to Moffat's Limited, at Weston.

Poles were relocated and circuits rearranged at Delaware junction and at Delaware distributing station in conformity with alterations at the station.

Thirty poles were relocated in the Delaware junction-Mt. Brydges junction line, in order to clear highway work near Strathroy.

Between Norwich junction and Tillsonburg municipal station, a distance of 8 miles, a single-circuit, 13,200-volt, wood-pole line was constructed. This line replaces the old, double-circuit line, 10.3 miles long, which had been in operation since 1911.

Twenty-one telephone poles were replaced in order to provide for Ingersoll and London rural power districts' attachments.

Relocation was completed of 1.25 miles of 13,200-volt, wood-pole line between the westerly limits of Aylmer and Aylmer distributing station, in order to eliminate hazards on town streets.

Increased conductor spacing was accomplished by the revision of the Dutton-West Lorne 13,200-volt line to pole-top-pin construction, a distance of 7.6 miles.

The ground wire was removed and crossarms rearranged on 2 miles of the 13,200-volt, Streetsville junction-Milton wood-pole line to provide clearances for the addition of Milton rural power district attachments.

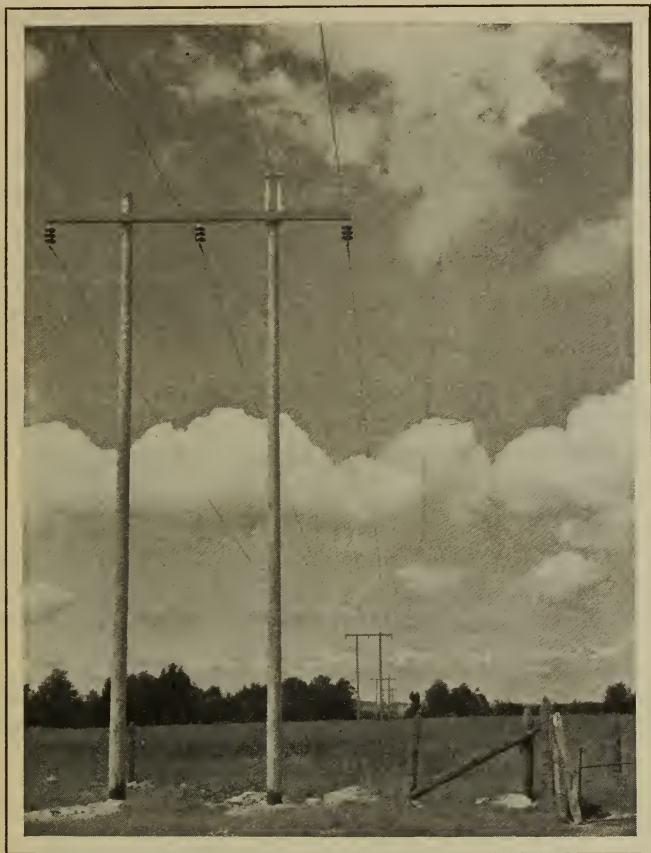
Between Drumquin junction and the new Canadian Broadcasting Corporation's station near Hornby, construction was completed of 3.2 miles of 13,200-volt, single-circuit, wood-pole line. Conductors are No. 2 aluminum cable, steel-reinforced, and the line is equipped with a telephone circuit and switching at Drumquin junction.

Due to highway work in the vicinity of Woodbridge, 35 poles were relocated in the 13,200-volt line between Woodbridge and Kleinburg distributing stations.

In order to provide for the building of a local distribution line between a point south of Bloor Street and Islington distributing station, poles were relocated on Islington Avenue so that the 13,200-volt line occupies one side of the street only.

An additional single-circuit, 12,000-volt, wood-pole line was constructed to the Norton Company at Chippawa. This line is 1.38 miles long and its source of supply is the Toronto Power transformer station.

Between Thorold transformer station and Burgoyne distributing station, a distance of 3.75 miles, a single-circuit, 12,000-volt line having 4/0 copper conductors, was completed.



TRANSMISSION LINES—GEORGIAN BAY SYSTEM

Standard twin pole structure 38,000-volt line Waubaushene to Fergusonvale

Circuits in the Thorold transformer station-Garden City junction vicinity were revised by the addition of short stretches of new, 12,000-volt line and reconstruction to provide single-circuit, loop supply to Merritton and Garden City junctions. A new station at Merritton was connected to this loop system by the construction of 0.25 mile of single-circuit, wood-pole line.

GEORGIAN BAY SYSTEM

High-voltage Lines

Construction was completed of a single-circuit, 38,000-volt line between a point south of Waubaushene switching station and a new transformer station at Fergusonvale, a distance of 16 miles. This line consists of twin-pole structures and 336,400 circular-mil aluminum cable, steel-reinforced, with 110,000-volt clearances. Its location is such that it will be part of future facilities for the transmission of power from generating stations on the Severn and Musquash Rivers.

A double-circuit, 38,000-volt, wood-pole line, 0.5 of a mile long, was built between Waubaushene switching station and the beginning of the new single-circuit line.

Severn District

At Painswick distributing station, Thornton and Buckskin junctions, modern, air-break switches were erected to replace an older type.

Between Fergusonvale switching station and Collingwood distributing station, a total distance of 27.11 miles, the 22,000-volt insulators were removed from one circuit only and replaced by 38,000-volt. This work, coupled with similar construction in the Eugenia district, provides a 38,000-volt tie line between the Severn and Eugenia districts.

Due to the widening of highway No. 9, it was necessary to divert approximately 2 miles of the 22,000-volt, Cookstown distributing station-Tottenham junction, wood-pole line.

Eugenia District

The existing Eugenia generating station-Collingwood distributing station circuit was revised for 38,000-volt operation by the replacement of insulators on an 8.35-mile section and the rearrangement of conductor spacing for the total distance of 24.22 miles.

Guys were relocated between Chesley distributing station and Walkerton junction in order to provide clearance to work being done on a telephone company's adjacent line.

Wasdells District

At Severn junction a two-pole bus structure, equipped with sectionalizing clamps, was erected to facilitate the interchange of power between the Wasdells district and the Orillia tie line in cases of emergency.

EASTERN ONTARIO SYSTEM

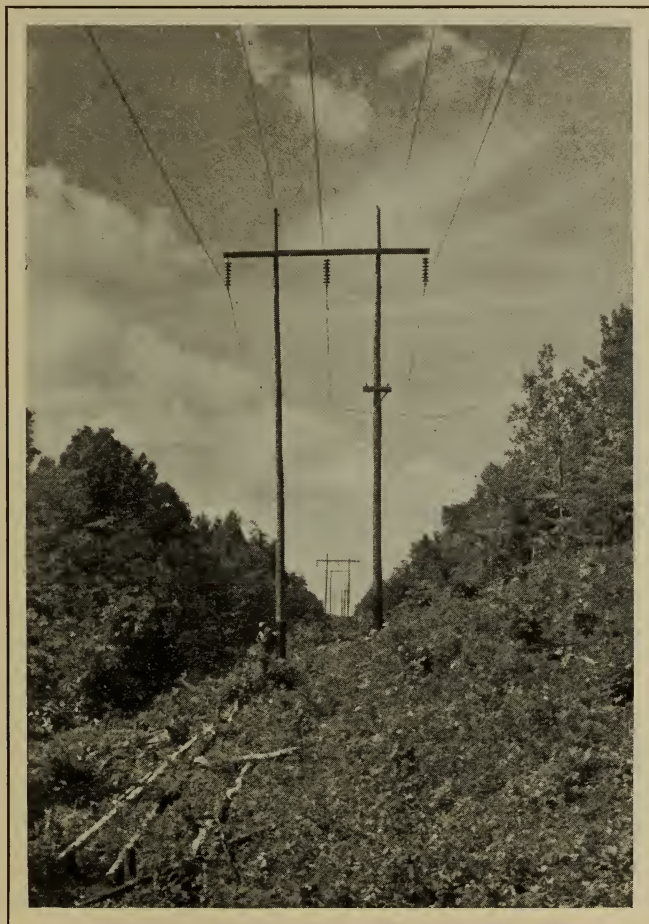
High-voltage Lines

An important addition to the transmission system of this district was made by the completion of 120.32 miles of single-circuit, 110,000-volt, twin-pole line. This line will transmit 60-cycle power from Chats Falls generating station to the new transformer station at Trenton.

Central Ontario District

Transpositions were revised in 13.62 miles of the double-circuit, 44,000-volt Warkworth distributing station-Newcombe junction line in order to reduce inductive effects in paralleling communication circuits.

Between the recently acquired Lakefield generating station and Auburn transformer station, 7.67 miles, a single-circuit, 44,000-volt, wood-pole line was completed.



TRANSMISSION LINES—EASTERN ONTARIO SYSTEM
Standard structure 110,000-volt line, Chats Falls to Trenton

THUNDER BAY SYSTEM

Construction was completed of 93 miles of 110,000-volt, wishbone-type, wood-pole line between Cameron Falls generating station and Long Lac transformer station. This line augments the 44,000-volt services placed in operation in previous years and was made necessary by the rapid increase of load in the Long Lac mining area. The route, in general, follows the course of the new highway.

Between a junction established approximately three miles south of Nipigon and the Lake Sulphite Company's substation, 2 miles of 110,000-volt, wood-pole line were built.



TRANSMISSION LINES—THUNDER BAY SYSTEM

A typical wishbone type pole on the 110,000-volt line, Cameron Falls generating station to Long Lac transformer station

Transmission lines previously owned by private interests for the supply of power to mines in the Beardmore-Little Long Lac area were taken over by the Commission and incorporated in the Thunder Bay transmission system. These 44,000-volt lines, totalling 115.09 miles, when built were made to conform to Hydro standards. Included in this mileage is a line between Cameron Falls transformer station and Northern Empire Mines, 47.73 miles long, which was built by the Commission for the mine in 1933.

The recently constructed wood-pole line to the Sand River Gold Mines and the Leitch Gold Mines was connected to the Cameron Falls-Beardmore, 44,000-volt line at Empire.

Relocation was completed of 14 poles on Canadian National Railway property near Beardmore station to clear new industrial sidings.



TRANSMISSION LINES—THUNDER BAY SYSTEM

Angle structures 110,000-volt line Cameron Falls generating station to
Long Lac transformer station

NORTHERN ONTARIO PROPERTIES

Abitibi District—132,000-volt lines

A new junction was established on the Hunta-Timmins steel-tower line and a single-circuit, wood-pole line, 8.15 miles long, was constructed to a transformer station near Pamour-Porcupine Mines Limited.

Other Lines

A double-circuit, 26,400-volt, wood-pole line, 1,250 feet long, was constructed to connect the Pamour-Porcupine Mines transformer station with the new 132,000-volt transformer station.

Between Larder Lake transformer station and Kir-Vit Mines, construction of a single-circuit, 26,400-volt, wood-pole line was completed, a distance of 3 miles.

A similar line, 6 miles long, was constructed to the Kerr-Addison Gold Mines.

Between a junction established near the Kirkland Gold Rand mine and the Golden Gate Mining Company's property, a distance of 4 miles, a 26,000-volt line was built. This line will operate at 11,600 volts.

The Lakeside Kirkland Gold Mines and the Continental Kirkland Mines were connected to the Bidgood line by the construction of two short stretches of 11,600-volt, single-circuit, wood-pole line.

Construction was completed of a single-circuit, 26,400-volt, wood-pole line between Paymaster Consolidated Mines station and the Preston East Dome Mines station, a total distance of 1.47 miles.

Between Simpson Lake junction and Delnite mines, 2.70 miles of single-circuit, 26,400-volt, wood-pole line was constructed. A short tap from this line was completed to the Buffalo-Ankerite Gold Mine station.

The Mace Gold Mine station was connected to the Pamour-Timmins 26,400-volt line.

A short stretch of single-circuit, 26,400-volt line was constructed between Timmins transformer station and the Moneta Porcupine Mines station.

Sudbury District

The recently purchased Crystal Falls generating station was incorporated into the Sudbury district by the construction of 46.23 miles of single-circuit, 44,000-volt, wood-pole line, terminating at Coniston generating station. This line has 110,000-volt conductor spacing and is equipped with a telephone circuit.

St. Joseph District

The Albany River Mine station was connected with the Pickle Crow Mine station by the construction of 1.5 miles of single-circuit, 22,000-volt, wood-pole line.

TELEPHONE LINES—ALL SYSTEMS

Sections of telephone pole lines were rebuilt in the Niagara and Georgian Bay systems to provide joint use accommodation for rural power and telephone circuits.

Between Newmarket distributing station and Bradford distributing station 9.5 miles of telephone circuit was erected on existing power and separate telephone poles to provide telephone facilities between Toronto and the Georgian Bay system.

Telephone circuits were diverted and rebuilt in the vicinity of St. Catharines for a distance of 2.6 miles. The Welland Ship Canal crossing at Allanburg together with the circuits in the vicinity of St. Thomas transformer station were rebuilt to improve telephone service in the Niagara system.

In the Georgian Bay system, the telephone circuits were renewed and re-coordinated with power circuits between Markdale junction and Berkeley distributing station, a distance of 4.8 miles.



TRANSMISSION LINES—NORTHERN ONTARIO PROPERTIES
Standard construction 26,400-volt line Ankerite Junction to Delnite Mines

DISTRIBUTION LINES AND SYSTEMS

In Appendix III is shown, in tabular form, and summarized, the progress made in the installation of new rural lines in rural power districts.

The summary indicates a total construction during the year of 2,008 miles of completed line, and service given to 11,064 consumers. These figures form an interesting comparison with our previous record year, in 1930, of 1,890 miles of completed line construction, and service given to 9,198 consumers.

In addition to general construction work certain studies and investigations have been made.

Early in the year a study was completed on the probable storm loading of pole lines. Data on ice and wind storms during the past forty years were obtained from the meteorological offices at Toronto and Buffalo. This information confirmed the findings of engineers in nearby territory that coincident ice and wind loading, commonly provided for in design, does not occur. It is therefore proposed to revise the standards of rural line construction, effecting a considerable saving in initial cost. Further investigation has been made to ascertain the economical type of construction for rural lines under various local conditions.

Engineering advice was given in connection with joint use of poles between the Bell Telephone Company and several municipalities.

The following pages contain brief reference to rural power districts, municipal and feeder lines, of the various systems, where the development during the year has been of particular interest.

NIAGARA SYSTEM

Rural Line Construction

Aylmer R.P.D.—N11D2—Extensions totalling 39 miles of new line were built, and service given to consumers in the village of Vienna. This being an incorporated village, special legislation was required to permit consumers to be served as part of the rural power district.

Blenheim R.P.D.—N14D3—Service was given to consumers in the vicinity of Buxton and Cedar Springs.

Bothwell R.P.D.—N14D10—Extensions totalling 22 miles of new line were built partly in the vicinity of Moraviantown.

Brant R.P.D.—N12D1—Extensions totalling 42 miles of new line were built during the year to serve farm consumers.

Caledonia R.P.D.—N2D5—Consumers in the vicinity of Bingdon and Caistorville were given service.

Chatham R.P.D.—N14D1—Extensions totalling 28 miles of new line were built in the vicinity of Paincourt, Dover Centre, Baldoon, and Mitchell Bay.

Dresden R.P.D.—N14D12—Extensions totalling 24 miles of new line were built and service given to consumers in the hamlets of Wabash, Garville and Dawn Valley.

Essex R.P.D.—N15D7—Extensions totalling 17 miles of new line were built in the vicinity of Woodslee, Barretville and Cottam.

Haldimand R.P.D.—N2D8—Extensions totalling 24 miles of new line were built during the year to serve farm consumers.

Kingsville R.P.D.—N15D5—Extensions totalling 19 miles of new line were built and service given to consumers in the vicinity of Windfall.

Lucan R.P.D.—N4D5—Extensions totalling 23 miles of new line were built to serve farm consumers.

Merlin R.P.D.—N14D15—Extensions totalling 12 miles of new line were built in the vicinity of North Buxton, Fletcher, and Jeanette Creek.

Oil Springs R.P.D.—N18D3—To improve voltage conditions in the hamlet of Inwood and vicinity, nine miles of existing single-phase line were changed to three-phase

Sarnia R.P.D.—N18D4—Extensions totalling 18 miles of new line were built in the vicinity of Corunna, Point Edward and Perch.

St. Marys R.P.D.—N9D1—Extensions totalling 19 miles of new line were built to serve farm consumers.

St. Thomas R.P.D.—N11D1—Extensions totalling 27 miles of new line were built to serve farm consumers.



DISTRIBUTION LINES NEAR CALABOGIE
Twin pole and crib installation in ten feet of water

Strathroy R.P.D.—N4D4—Extensions totalling 27 miles of new line were built to serve farm consumers.

Thamesville R.P.D.—N14D11—Extensions totalling 16 miles of new line were built in the vicinity of Florence and Shetland.

Tilbury R.P.D.—N14D14—Extensions totalling 19 miles of new line were built in the vicinity of Quinn and Windfall.

Wallaceburg R.P.D.—N14D13—Extensions totalling 33 miles of new line were built and service given to consumers in the hamlets of Mitchell Bay, Baldoon, and Tupperville.

Walsingham R.P.D.—N12D7—Extensions totalling 51 miles of new line were built during the year to serve farm consumers.

Woodstock R.P.D.—N10D2—Extensions totalling 22 miles of new line were built to serve farm consumers.

GEORGIAN BAY SYSTEM

Rural Line Construction

Bruce R.P.D.—E19D1—Extensions totalling 15 miles of new line were built and most of the district was changed from 4,000 to 8,000 volts.

Creemore R.P.D.—S10D2—Extensions totalling 23 miles of new line were built to serve farm consumers.

Elmvale R.P.D.—S7D1—Extensions totalling 18 miles of new line were built in this district, previously inactive, to serve farm consumers.

Flesherton R.P.D.—E1D1—Extensions totalling 11 miles of new line were built in the district which had previously been quite inactive.

Hawkestone R.P.D.—S9D1—Extensions totalling 18 miles of new line were built during the year to serve farm consumers. This district was previously quite inactive.

Huntsville R.P.D.—M2D1—Extensions totalling 29 miles of new line were built and service given to consumers in the hamlets of Novar, Scotia and Emsdale.

Innisfil R.P.D.—S31D1—Conductor was changed for a distance of 8.5 miles to provide for increasing load.

Kirkfield R.P.D.—W6D1—The Victoria Road municipal distribution system was purchased and extended to serve consumers at Balsam Lake and vicinity. This was the first line built in the district.

Orangeville R.P.D.—E12D1—Extensions totalling 28 miles of new line were built in the district, previously inactive, and service given to consumers in the hamlets of Mona Mills and Hawkley.

Ripley R.P.D.—E24D2—Extensions totalling 27 miles of new line were built in the district, previously inactive, and service given to consumers in the hamlets of Bervie and Kinloss.

Sauble R.P.D.—E46D1—Service was given to consumers in the hamlets of Shallow Lake and Oxenden.

Tara R.P.D.—E15D1—Service was given to consumers in the hamlet of Parkhead and vicinity.

Wroxeter R.P.D.—E22D1—Service was given to consumers in the hamlet of Belmore.

EASTERN ONTARIO SYSTEM

Rural Line Construction

Belleville R.P.D.—C38D1—Extensions totalling 33 miles of new line were built and service given to consumers in the hamlets of Melrose and Chatterton.

Brockville R.P.D.—L3D1—A new tie line was built from Lyn distributing station to the village of Lyn and conductor changed on 10 miles of existing line to improve voltage at Lansdowne, Ivy Lea, and vicinity.



RURAL DISTRIBUTION AT NORTH BAY

Step-up transformer and metering installation to supply 8,000-4,600 volt service to rural lines

Chesterville R.P.D.—L5D1—Extensions totalling 37 miles of new line were built, and service given to consumers in the hamlet of Limoges.

Cobourg R.P.D.—C13D1—Extensions totalling 22 miles of new line were built and service given to consumers in the hamlet of Garden Hill.

Kingston R.P.D.—C44D1—Extensions totalling 54 miles of new line were built during the year.

Martintown R.P.D.—L13D1—Service was given to consumers in the hamlet of North Lancaster and vicinity.

Minden R.P.D.—G37D1—Extensions totalling 18 miles of new line were built to serve Summer resort and farm consumers.

Napanee R.P.D.—C43D1—Extensions totalling 68 miles of new line were built to serve farm consumers.

Oshawa R.P.D.—C24D1—Extensions totalling 26 miles of new lines were built to serve farm consumers.

Sulphide R.P.D.—C34D1—Extensions totalling 15 miles of new line were built, being the first line in the district, and service was given to consumers in the hamlets of Thomasburg and Stoco.

Wellington R.P.D.—C45D1—Extensions totalling 29 miles of new line were built and service given to consumers in the hamlet of Cherry Valley and vicinity.

Municipal Distribution System

Prescott—L201—On request of the Public Utilities Commission a complete survey of the distribution system was made, plans were prepared, and recommendations submitted for necessary rebuilding.

THUNDER BAY SYSTEM

Municipal Distribution Systems

Geraldton Townsite—P1606—A complete distribution system was built.

Beardmore Townsite—P1206—A complete distribution system was built.

MANITOULIN RURAL POWER DISTRICT

Manitoulin R.P.D.—MR1D1—Consumers in the hamlet of Providence Bay were given service.

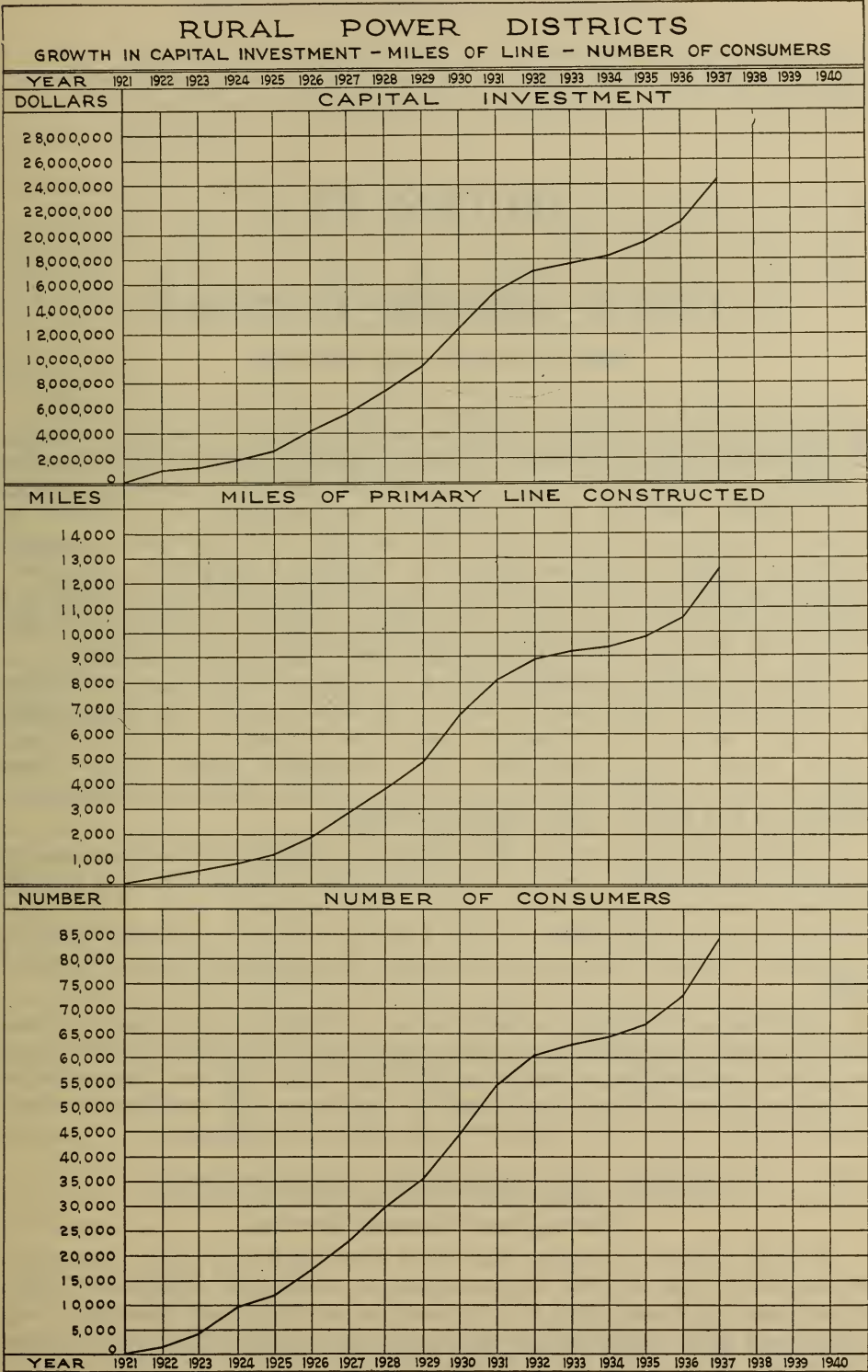
NORTHERN ONTARIO PROPERTIES

Rural Line Construction

North Bay R.P.D.—Z4D1—The voltage in part of the district was changed from 4,000/2,300 to 8,000/4,600 volts to improve service in the denser populated area.

Municipal Distribution Systems

King Kirkland Townsite—F.A. 1607—A complete distribution system was built.



SECTION VII

TESTING—RESEARCH—INSPECTION

PRODUCTION AND SERVICE

THE Laboratories of the Commission handle a very wide variety, and large quantities of materials and equipment, testing, inspecting and checking to insure good quality and proper characteristics. Metals, concrete, paint and other materials entering into construction are examined and subjected to routine or special tests to determine their suitability for the purposes intended. Completed products, such as generators, turbines, transformers, oil circuit-breakers, metering and lighting equipment, and also cables and conduit, are thoroughly inspected and their characteristics checked to make certain that they comply with the specifications under which they are being supplied.

Research work is constantly carried on to improve processes and quality and performance of equipment, to reduce cost where possible and to find causes of failure in service. The Research Committee, through its twelve sub-committees, brings to the Laboratories the Commission's specific problems and assists in their solutions by close co-operation. Many of these problems have been solved and very successful results obtained.

Another important work is the examination and test of such devices and fittings as are commonly used by the general public to insure that these provide suitable protection against shock and fire. The particular value of this work appears in the relatively small number of serious electrical accidents to persons or property in this Province, considering the very widespread use of electrical power.

Inspection of electrical installations on industrial, commercial and residential premises has been carried on continuously throughout the year and has shown considerable increase over 1936. This work also contributes to the minimizing of accident and fire hazard by insuring a high standard of workmanship and the use of only approved materials and equipment.

TESTING AND RESEARCH LABORATORIES

Routine and General Testing

A large number of routine tests have been made and many inspections without tests. These covered various materials, devices and equipment, which are continuously flowing into the Laboratories, and the tests determine their quality, and safety or hazard in the hands of the public. The total of these tests during the year was about 57,000.

Materials and Equipment Inspection

There has been a marked increase in the testing of cement, paint, and other building materials, and also conduit and tubing. Due to further extension of rural lines, and other protective features, factory inspection of fused switches increased considerably.

Transmission Line Materials.

The usual inspections of all transmission line materials passing through the Strachan Avenue stores have been made; these included insulator pins, cross arms, brackets, and general line hardware. In addition, copper wire, steel-reinforced aluminum and galvanized steel cable were inspected. The tonnage amounted to 2,964, about 145 per cent greater than last year.

Steel and Timber

The amount of reinforcing steel inspected has increased, the total being 170 tons. In addition to this, steel stop-logs and stop-log timbers were inspected and there were 103 tons of galvanized steel sheet. Miscellaneous items included racks, steel anchors and timber sills.

Concrete

Resident concrete inspectors were assigned to five large construction projects. These inspectors kept careful check on the quality of the ingredients used in the concrete mix, on their measurement and mixing and on the placing and final curing of the concrete. For several smaller jobs, specimens of concrete from the field were tested at the Laboratories, on the others field laboratories were maintained.

Paint

Many routine tests on paints were carried out. Manufacturers' samples are tested regularly to check both quality and colour, and approved brands are constantly being added as new paints of the required quality appear on the market.

Electrical Equipment

Electrical factory inspection included one 4,500-kv-a generator, 103 power transformers, totalling 71,860 kv-a, about 9,000 distribution transformers, five oil-circuit breakers, 104,000 kv-a, and 3,000 disconnecting switches of various types with total rated capacity of 1,620,500 kv-a. The generator was supplied for extension of the Ear Falls development, and the transformers, oil circuit-breakers and disconnecting switches had been purchased for the various power systems of the Commission.

Routine tests also were made in the Laboratories on rubber gloves, other rubber products, insulating oils, insulators, small transformers, motors, meters, thermostats and a number of miscellaneous items.

Lamps and Lighting Service

There was a large increase in the number of lamps inspected and tested. More than 78,000 lamps were checked at the factory, and 4,000 lamps were subjected to life tests at the Laboratories.

With the increasing appreciation of the value of good lighting, there were 215 lighting plans requested and prepared, about 50 per cent more than in 1936. Of these, more than 100 were for schools, a total of 546 rooms, chiefly in small towns and villages, which indicates a definite desire on the part of such municipalities to improve the illumination of their public buildings.

Inspections and surveys of lighting were made on 200 premises, nine lectures were delivered, and the benefits of good lighting were discussed with many small groups.

Various tests were made on red reflex and left-turn signals, and on safety glass, for the Provincial Department of Highways, and there were 108 miscellaneous tests, on "better-sight" lamps, transmission through plastic materials paint gloss and reflection from acoustical plaster, also light distribution and efficiency of certain fixtures. Some additional work was done in calibration of intensity meters.

Mechanical Equipment

One 5,000-horsepower turbine has been inspected during construction, and also a 50-ton overhead crane. In addition to these, separate machine parts included two large spare guide bearings and a replacement shaft for one of the generators at Queenston. Equipment under construction in England and in Germany was inspected at the manufacturers' plants by local inspectors under the direction of the Testing and Inspection department.

Research

As in previous years, the research investigations may be classified according to purpose. Some have broad application whereas others are directed toward the solutions of particular problems.

New Methods and Materials

New devices, materials and methods investigated include a wood-pole stubbing collar, sectional steel poles, improved linemen's safety equipment, weld metals, and material for patching concrete surfaces.

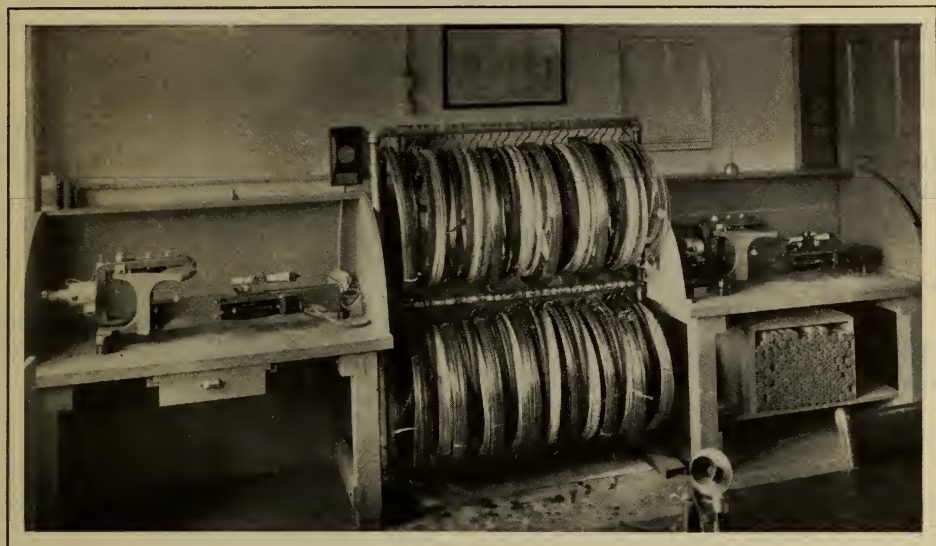
The stubbing collar has proved to be a very successful means of reinforcing poles that have deteriorated at the ground line. Further tests on this device are being made.

The new steel pole for distribution systems presents certain advantages in handling and storage. A sample was brought in from England, set up at the Laboratories and tested to destruction.

A method of measuring the pressure exerted against the jack screws by the discs of Kingsbury thrust bearings has been developed this year. A new type of instrument is used for this purpose, and satisfactory measurements have been made with it.

Investigation of Troubles

To prevent repetition, it is important that failures be investigated and their causes determined. In 1937, a number of failures and conditions leading to trouble, were studied, including the following: A cracked generator shaft,



FATIGUE TESTING MACHINES FOR DETERMINING THE ENDURANCE LIMITS OF CONDUCTOR MATERIAL

These are being used at present in the testing of steel wire

corroded and broken tower bolts, deteriorated bus bar and lead cable, and pitted water pipes, some destroyed by cooling water and others corroded by the soil.

Electrical faults in equipment under factory witness test have been determined by the Commission's testing engineers where, in order to obtain the necessary information, special methods of measurement had to be devised. Operating troubles in a temporary power plant on a construction project required investigation by the Laboratories to correct the faults.

A large number of bushings which failed in service have been dismantled and examined to determine the nature of the faults with a view to preventing such failures, and consequent interruptions to service, in the future.

Investigations Leading to Improvements in Methods and Material

Research investigations in the Laboratories are largely directed toward improvement in quality or performance of materials or equipment. In many cases the study of defects is the first step toward such improvement. The solutions of problems appearing in the field frequently result in improved methods or processes.

The method of determining faults in live high-voltage bushings has been improved by new interpretations of the results, giving additional valuable information.

The physical characteristics of conductor materials have been further investigated, particularly towards determination of the modulus of elasticity for better understanding of fatigue tests.

Methods of repairing concrete have been studied for some years and a material has been found that may be suitable for shallow patches on concrete surfaces. Investigation of the characteristics of this material was carried on this year, but is not yet completed.

Further studies of concrete are being made to gain a better understanding of the causes of disintegration so that a method of reducing this trouble may be found.

An improvement was made in mechanics' hand soap.

Tree-wound Dressings

Field and laboratory experiments were made on tree-wound dressings used by the Commission, and a more suitable preparation has now been provided.

Paints

Special work was done to determine the ability of various paints to withstand exposure to seepage water. Check tests also were made on various brands of exterior non-fading paints in use on station operators' houses.

Treatment of Wood Poles

The sand-creosote collar developed for the prevention of ground-line deterioration of wooden poles has been applied very extensively this year. The effects of frost, and behavior of the sand filler after re-treatment, have been investigated and the proportions of creosote in the sap-wood, and remaining in the sand, have been measured in a number of installations. Soluble salts were tried as wood preservatives and some progress has been made in their use. The advantages of adding certain insecticides to creosote in treating poles has also been investigated.

Petroleum Products

The filtering of insulating and lubricating oils was the subject of considerable study to ascertain the effect on the body of the oil, and to determine the most suitable filter papers, and operating pressure and temperature. Different types of filters for use on automobiles were examined and tested, and information for guidance in the selection of such filters was given to the departments concerned.

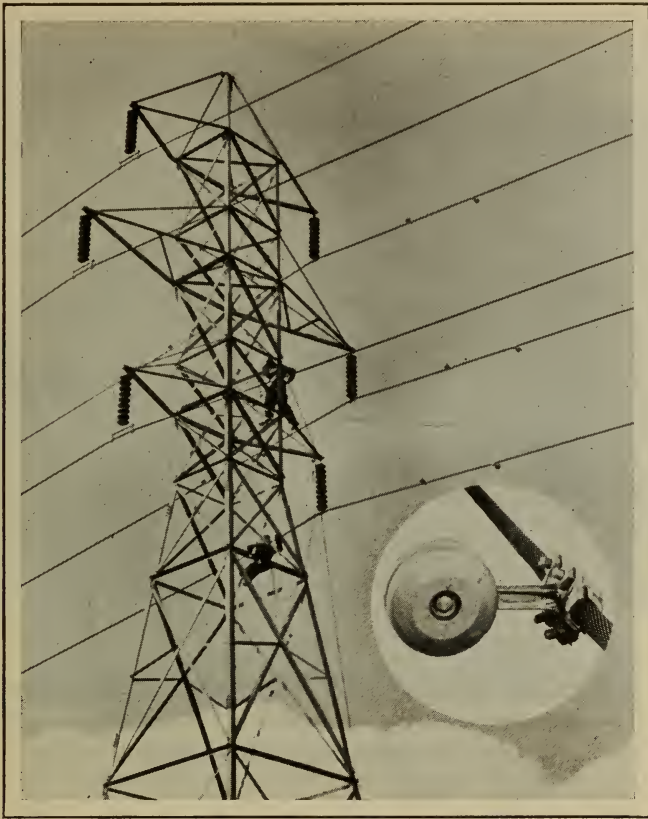
Lubricating oils and greases have been further investigated and classified with a view to reducing the number of grades required by the Commission. Cable lubricants also have been tested.

Bushings

The study of transformer bushings has been extended by more than 1,500 field tests to prove the value of the method for use in locating trouble in such bushings prior to failure.

Electric Soil Heating

The Laboratories have assisted in the experiments on electric soil heating carried out in co-operation with growers and in the special electrically-heated greenhouse at Niagara Falls. A systematic study of various applications has been made which showed the desirability of this type of electrical load and a



INSTALLATION OF TORSIONAL VIBRATION DAMPERS ON THE
CONDUCTORS OF A 110,000-VOLT TRANSMISSION LINE

Inset—An enlarged view showing the type of damper being used in
investigations

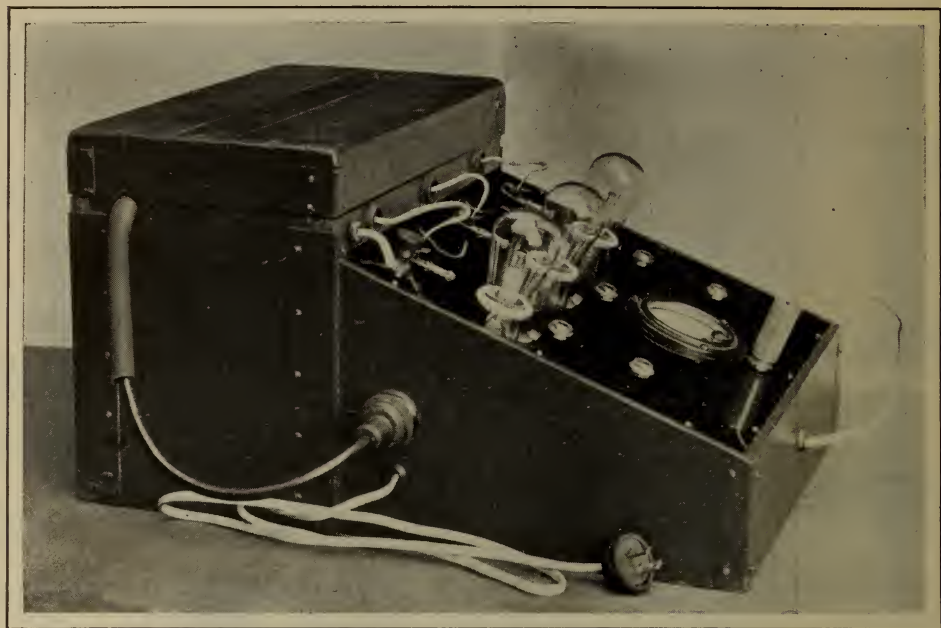
possible market for power. The value of the method has been successfully demonstrated, and it evidently has advantages in simplicity and convenience over other methods now in use.

The most important work done during 1937 was the study of design for greenhouses and hot beds, the determination of desirable types of heating units and their installation, and the values of heat fluxes required, all of which information is now available to growers who are considering this application of electric current.

Welding

By means of the oscillograph, the power demands of various types of resistance welders have been investigated with a view to establishing equitable rates for power supplied for such services.

Electric welding has been further studied to find the best methods of checking the work while it is being done and of testing the results. Specifications for arc welding were prepared, and in these are incorporated the methods which have proved most satisfactory.



SPECIAL INSTRUMENT FOR DETERMINING THE DEGREE OF IMPREGNATION
OF ELECTRICAL INSULATING COMPOUNDS IN THE FIBROUS COVERINGS
OF HEAT-RESISTING FIXTURE WIRE

Vibration

The vibration of transmission line conductors has received considerable attention; the problems are being clarified and definite progress has been made during the year. A large number of tests were carried out to determine the endurance characteristics of conductor materials, and the fatigue limits and other physical properties of steel ground wire.

Additional investigations in the field have produced further useful information as to the behavior of clamps and suitable means for damping vibrations.

Remote Control

Different methods of remote control of loads have been studied and several demonstrations by manufacturers were witnessed. The Laboratories assisted a local manufacturer in the development of a street lighting relay of good characteristics but to sell at lower price than those otherwise obtainable.

Miscellaneous Research

Anti-corrosion treatments were applied to aluminum sleeve joints and their effect on the electrical characteristics investigated. Reports on the relative merits of dry and greased sleeves were prepared.

Studies were made to select a suitable asphalt mixture for waterproofing the walls and wheel pits of the Calabogie power plant.



ELECTRIC OVEN, WITH FORCED CIRCULATION OF AIR, AND
SENSITIVE ELECTRONIC TEMPERATURE CONTROL

Used in testing the heat-resisting qualities of rubber insulation on wires
and cables

Miscellaneous

New Equipment

New problems have necessitated the purchase of additional equipment for the Laboratories, including a cable-vibration generator, two balances and two recording thermometers.

A special instrument for determining the degree of impregnation of insulating compounds in the fibrous coverings of heat-resisting fixture wire was designed and built by the Laboratories. This device provides valuable information, for the insulation quality of asbestos or cotton coverings depends almost entirely upon thorough penetration by these compounds.

A special electric oven for submitting rubber compounds and other materials to high temperatures was constructed. This oven is insulated with rockwool and the heat is distributed within it by forced circulation of air. A unique feature is the electronic temperature control, designed by a member of the laboratory staff; this is an exceptionally sensitive and satisfactory system which maintains the temperature within 0.05 degree (Centigrade) of the desired point. Continuous tests over periods as long as two months were carried out successfully in this oven.

Specifications and Committee Work

Specifications for electric arc welding and for filter papers for oil filters, have been prepared, and existing specifications on galvanized ground and guy wire and on reinforced aluminum cable were revised.

In addition, a large number of meetings of standardization committees have been attended by members of the staff.

APPROVALS LABORATORY

Statistical

Comparative figures for tests and inspection carried out by the Approvals laboratory during the past three years are as follows:

	1935 number	1936 number	1937 number
<i>Applications received</i>			
Approval.....	696	770	793
Special Inspections, etc.....	362	320	395
Listing only.....	32	61	44
<i>Factory Inspection Reports</i>			
Wire and Conduit.....	.....	850	573
All Other.....	4,928	4,862	4,831
<i>Labels sold</i>			
Cord, Wire, Cable, etc.....	499,000	594,000	765,800
Conduit.....	653,600	900,000	1,101,150
All other.....	1,435,900	1,865,500	2,468,860
Labels sold—Total.....	2,588,500	3,359,500	4,335,810

There was an increase in applications for approval and special inspections, and an increase of nearly 30 per cent in the number of labels sold. Although the tabulated figures do not indicate it, there actually was a greater amount of work done on factory inspection than in former years.

The quantity of wire, cable and conduit labelled in 1937 was substantially greater than in each of the two previous years, as is shown in the following table:

	1935 M-ft.	1936 M-ft.	1937 M-ft.
Insulated wires (including R.C. fixture wire and heat-resisting wire and cord).....	87,750	109,230	151,200
Insulated flexible cord.....	21,750	30,125	33,250
Heater cord.....	5,625	5,375	6,725
Armoured cable.....	8,250	11,560	13,300
Flexible steel conduit.....	200	250	300
Flexible non-metallic tubing.....	5,250	5,000	6,250
Non-metallic sheathed cable.....	7,300	12,350	18,450
Rigid steel conduit (including elbows and nipples).....	6,536	8,500	11,000

There have been 621 factory inspections of wiring materials, and 1,067 inspection reports were prepared and forwarded to manufacturers.

A few new types of electrical appliances and devices were approved. The 1937 summary given below shows an increase in the work done, and includes recent designs in electric organs, electric shavers, radio inter-communicating systems, short wave therapeutic equipment and ice cream freezers, as well as certain new devices for garage use and for the printing industry.

	1935 number	1936 number	1937 number
Motor-driven appliances (including motors)....	186	214	249
Electrically-heated appliances.....	192	191	163
Wiring devices (including temperature regula- tors).....	88	111	71
Lighting devices (including electric signs).....	87	115	104
Industrial control devices (including trans- formers, capacitors and rectifiers).....	22	19	22
Wire, cable and cord (including cord-sets, and service-entrance cable).....	8	22	14
Radio, sound and picture appliances (including devices for the suppression of radio inter- ference).....	32	34	47
Miscellaneous equipment and materials (in- cluding medical and dental equipment, welding machines and thermal insulation)	81	64	115

Preliminary investigations were made on electric fence equipment, the hazards considered and recommendations regarding its use forwarded to the Electrical Inspection department.

A new synthetic rubber for hard-service flexible cords and a special rubber for use at high temperatures were investigated. A new coating for rigid steel conduit was tested but not approved. The investigations also included non-metallic sheathed cable, of six different manufacturers, following reports that some such cables installed in root houses, stables, etc., had shown excessive deterioration.

PRODUCTION AND SERVICE DEPARTMENT

The machine shop, carpenter shop and garage repair shop constitute this department. Their primary functions are the building of equipment and devices designed by the engineering departments, and the repair and maintenance of the Commission's fleet of approximately 250 trucks.

The production of this department includes line hardware, joint-making hand presses for line conductors, hydraulic and oil filter presses, air-break and isolating switches, panels and accessories, air-insulated current transformers, tap changers and telephone booth equipment, all of which is specially designed for the Commission's requirements. Considerable furniture and other wood repair work has also been done.

As part of the truck maintenance program, a periodic inspection was made of the condition of all trucks operating in the southern part of the Pro-

vince. Thirty-five of the Commission's trucks were overhauled and reconditioned at the garage, and this department has co-operated with all sections which make use of these trucks to insure the most efficient service.

A large amount of construction plant equipment has been supplied to various projects. This includes 7 gasoline power units which were assembled and put into operation, also some separate generators, and several tractors which were overhauled at the garage.

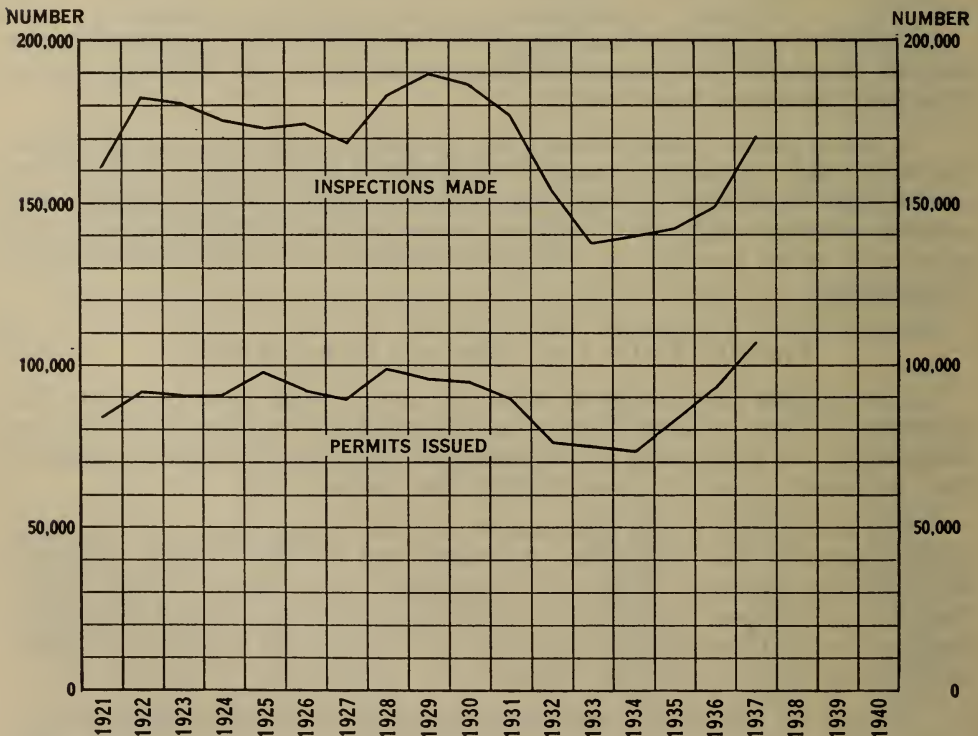
During the last three years, the work of the Production and Service department has grown appreciably. In 1937 the machine shop handled 1,225 orders and the carpenter shop 320 orders.

PHOTOGRAPHY AND BLUE PRINTING

The photographic studio completed 529 orders including a large amount of special work both within the studio and sent in from the field. The blue printing department handled 5,900 orders and turned out 66,700 prints.

Towards the end of the year a new photostat camera was installed. It provides a convenient and ready means of reproducing drawings, printed matter, etc. The instrument will reduce to 50 per cent, or enlarge to 200 per cent, of the original scale of the drawing, at one operation; greater or lesser reductions can of course be obtained by using the first print as copy for a second reproduction.

ELECTRICAL INSPECTION



ELECTRICAL INSPECTION DEPARTMENT

The increasing volume of electrical inspection necessitated re-opening the Belleville office on April 1, 1937, after having been closed since December 31, 1934. The district office at Bancroft was closed and the inspector transferred to Belleville.

Statistical

A total of 107,175 permits was issued, an increase of 15.4 per cent over 1936. This is a new record, the previous maximum having been 98,963, in 1928. There were 170,094 inspections, an increase of 14.5 per cent over 1936.

The accompanying graph shows the numbers of permits issued, and inspections made, each year since 1921.

Fires Attributed to Electricity

Every year a large number of fires are reported as having been due to defective electric wiring or equipment but, in many instances, the premises and equipment have been damaged to such an extent that it is not possible to ascertain the exact cause. Of the fires investigated, nineteen were found due to defective installation or faults in equipment. They are classified, as to origin, as follows:

	Number
Short-circuit in flexible cord.....	5
Short-circuit in service wires.....	3
Short-circuit in branch circuit.....	3
Short-circuit in motor feeder.....	1
Short-circuit in armoured cable.....	1
Short-circuit in flexible conduit.....	1
Short-circuit in service switch.....	1
Loose connection at meter.....	1
Loose connection at base receptacle.....	1
Hot plate in contact with combustible material.....	2

Electrocutions and Fatal Accidents

Five persons were electrocuted through coming into contact with electric wiring or equipment under the jurisdiction of this department, as compared with six persons in 1936. The individual causes are briefly cited below:

Man electrocuted while attempting to remove a steel bar which, accidentally, had been dropped behind a switchboard-type ammeter. Circuit voltage, 550 volts.

Woman electrocuted through touching a portable electric heater while in a bath tub. Circuit voltage, 120 volts.

Man electrocuted while using an extension cord which was equipped with a brass socket. Circuit voltage, 120 volts.

Man electrocuted while painting a sign. Circuit voltage, 4,000 volts.

Man electrocuted while operating a sand thrower in a foundry. Circuit voltage, 550 volts.

Also, seven animals were electrocuted. Details, in brief, are as follows:

Two cows were electrocuted due to a breakdown in the insulation of a conductor at a motor starter. Circuit voltage, 120 volts.

A cow was electrocuted due to the breakdown of the insulation on a conductor at a lighting switch. Circuit voltage, 120 volts.

Two cows were electrocuted when the frame of a motor, on a milking machine, became alive. Circuit voltage, 120 volts.

A hog was electrocuted when it came into contact with a fallen yard wire. Circuit voltage, 120 volts.

A dog was electrocuted while walking along a railroad track under which an unauthorized extension of an electric circuit had been made. Circuit voltage, 550 volts.

Ground Tests

There was a total of 5,381 ground tests made in isolated communities and rural districts, an increase of 55 per cent over 1936.

Infractions of Regulations

Twenty-nine persons and companies were prosecuted for various infractions of the rules and regulations governing the sale and installation of electrical equipment and material.

The Canadian Electrical Code

Members of the Electrical Inspection and Laboratories staffs have been assisting in the revision of various sections of the Canadian Electrical Code, and a considerable amount of time was spent on this work. On Part I of the Code, thirteen meetings, and a three-day conference in Ottawa, were attended. There were also several conferences with the Department of Transport on radio interference. The minutes of some of these meetings were prepared and circulated. On Part II, there were twelve meetings of various panels, the total attendance of the Commission's engineers and inspectors being 39. Eleven specifications have been issued, bringing the total number of specifications to 43, with 17 more being prepared.

Inspection of Factory Electrical Test Floors

With a view to increasing safety in factory electrical test departments, a committee visited the plants of eight manufacturers of electrical power equipment, inspected their test floors and prepared a report on the arrangement of testing equipment and other conditions found. Many faults pointed out by this committee have already been corrected by the manufacturers, and suggestions as to changes in arrangement of apparatus, protective fences and safer methods of operation have been followed.

The committee has prepared a set of rules as an aid toward greater safety in testing.

SECTION VIII

ELECTRIC RAILWAYS

THE HAMILTON STREET RAILWAY COMPANY

A Subsidiary of The Hydro-Electric Power Commission of Ontario— Niagara System

Gross earnings on the Hamilton Street Railway for the year 1937 increased 10.74 per cent. Operating expenses (including taxes) decreased 5.19 per cent. The result was an increase in net earnings of \$153,411. The improvement in earnings was due to an increase in fare and improved employment conditions in Hamilton.

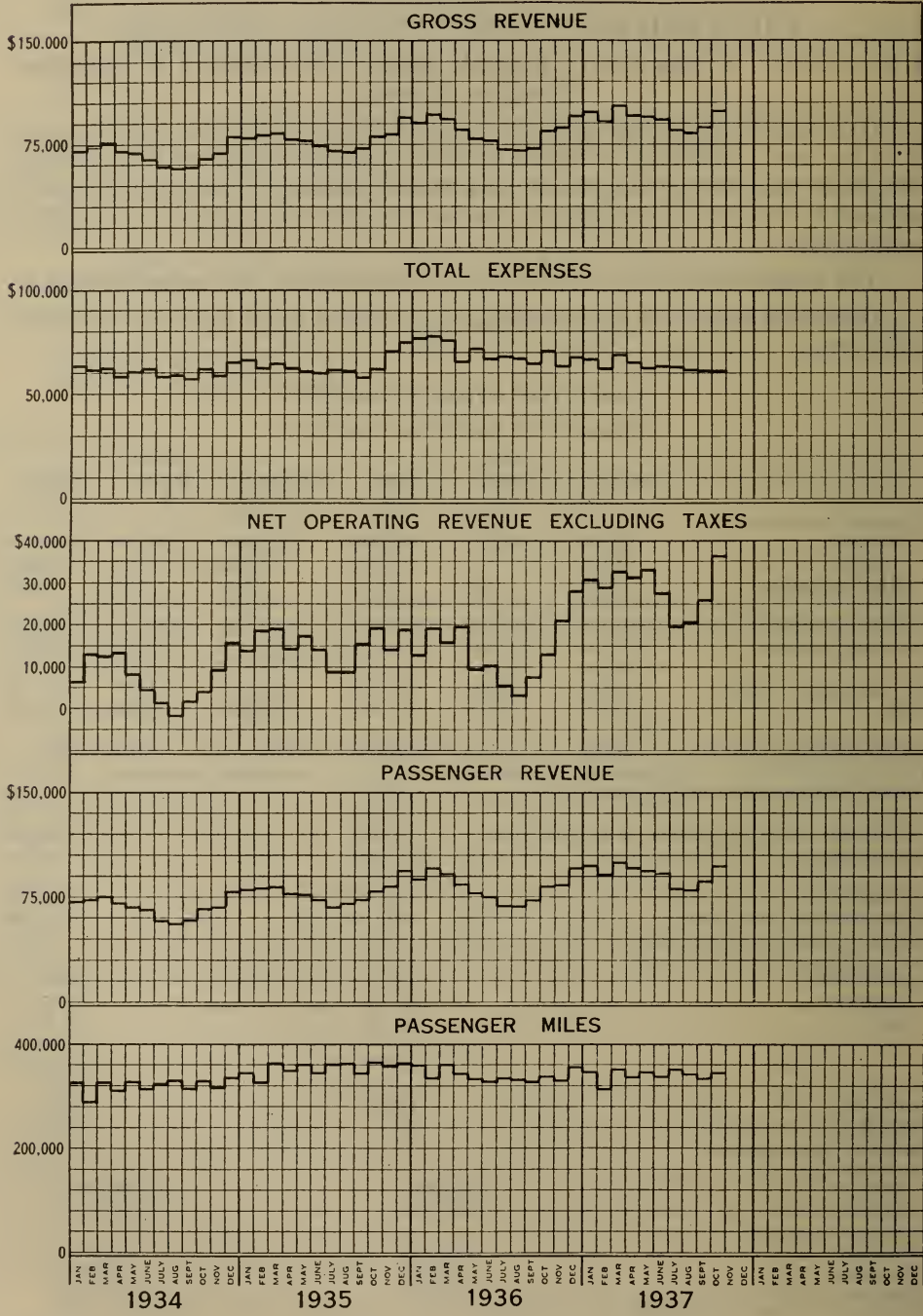
The balance sheet and income account are given at the end of Section IX.

Operating results are summarized and compared in the following tabulation and chart.

HAMILTON STREET RAILWAY Comparative Operating Statistics

	Tramways \$	1936 Buses \$	Total \$	Tramways \$	1937 Buses \$	Total \$
Operating revenues:						
Passenger.....	792,083	200,525	992,608	874,404	224,756	1,099,160
Freight.....	3,702	.....	3,702	5,682	.....	5,682
Other operations.....	6,065	575	6,640	5,140	709	5,849
Operating revenue.....	801,850	201,100	1,002,950	885,226	225,465	1,110,691
Operating expenses.....	686,639	167,222	853,861	604,139	169,393	773,532
Net operating revenue.....	115,211	33,878	149,089	281,087	56,072	337,159
Taxes.....	23,430	1,920	25,350	50,912	9,097	60,009
Net operating income.....	91,781	31,958	123,739	230,175	46,975	277,150
Interest on advances from Niagara system.....			6,257			850
Net income—before provision for depreciation...			117,482			276,300
Depreciation.....			150,000	.....		150,000
Net income.....			(32,518)	.....		126,300
Appropriation for dividend.....			nil	.....		122,969
Appropriation for ticket reserve.....			nil	.....		3,331
Route-miles:			1936			1937
Tramway.....			28.06	.....		28.06
Bus.....			17.58	.....		17.58
Total.....			45.64	.....		45.64
Track-miles.....			43.45	.....		42.80
Passenger cars operated.....			73	.....		72
Passenger buses operated.....			31	.....		32
Car-miles operated:						
Passenger cars.....		2,863,803	.....		2,769,270	
Passenger buses.....		1,301,886	.....		1,332,572	
Car-hours operated:						
Passenger cars.....		305,358	.....		297,903	
Passenger buses.....		105,620	.....		108,303	
Passengers carried.....		22,640,144	.....		21,277,756	
Percentage of transfer passengers to revenue passengers.....			22.7%	.....		24.3%

THE HAMILTON STREET RAILWAY COMPANY
OPERATING STATISTICS



GUELPH RADIAL RAILWAY

Operated by The Hydro-Electric Power Commission of Ontario for
The City of Guelph

There was no major commitment on capital account during the year. Essential maintenance of way and structures, and equipment was performed.

After careful consideration and, with the approval of the City Council of Guelph, the operation of street cars was discontinued on September 30, 1937. Freight service to certain industries and the Ontario Agricultural College is still maintained over the old right of way. For passenger service modern gasolene buses are now employed.

The balance sheet and income account are given at the end of Section IX.

Operating results are summarized and compared in the following tabulation and chart.

GUELPH RADIAL RAILWAY Comparative Operating Statistics

	Tramways	1936 Buses	Total	Tramways	1937 Buses	Total
	\$	\$	\$	\$	\$	\$
Operating revenues:						
Passenger	34,796	15,641	50,437	32,011	19,642	51,653
Freight	8,644	.....	8,644	10,719	.....	10,719
Other operations	491	40	531	474	59	533
Operating revenue	43,931	15,681	59,612	43,204	19,701	62,905
Operating expenses	52,419	15,627	68,046	50,399	18,505	68,904
Net operating deficit	8,488	54*	8,434	7,195	1,196*	5,999
Taxes	246	.....	246	246	.....	246
Net operating loss	8,734	54*	8,680	7,441	1,196*	6,245
Interest and instalment payment			†23,787			†23,387
Sinking fund			3,769			3,921
Renewals—buses			6,031			6,031
Total deficit			42,267			39,584

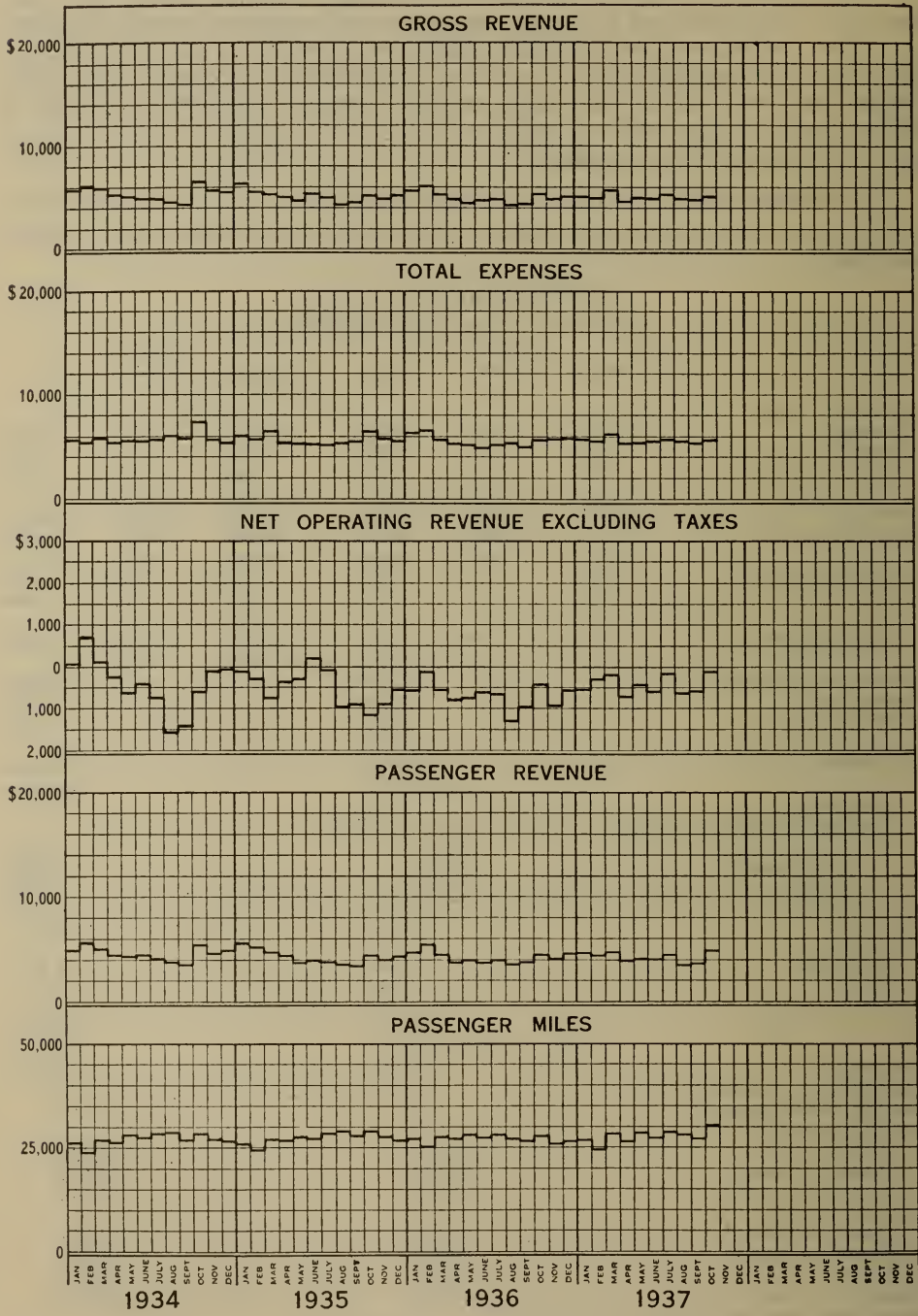
*Surplus.

†Includes \$11,700 on purchase account, made up as follows:

	1936	1937
Amortization	\$9,543	\$9,978
Interest	2,157	1,722

	1936	1937
Route-miles:		
Tramway	6.41	6.41
Bus	5.99	5.99
Total	12.40	12.40
Track-miles	9.06	9.06
Passenger cars operated	7	7
Passenger buses operated	4	4
Car-miles operated:		
Passenger cars	223,302	198,770
Passenger buses	104,189	129,195
Freight locomotive	9,367	11,298
Car-hours operated:		
Passenger cars	27,139	25,065
Passenger buses	14,060	16,290
Freight locomotive	2,159	2,352
Passengers carried	1,089,551	1,159,572
Percentage of transfer passengers to revenue passengers	27.29%	26.71%

GUELPH RADIAL RAILWAY—OPERATING STATISTICS



SECTION IX

FINANCIAL STATEMENTS

Relating to

Properties Operated by The Hydro-Electric Power Commission in the
Niagara, Georgian Bay, Eastern Ontario and Thunder Bay Systems
on Behalf of Municipalities

and to

Northern Ontario Properties Held and Operated by the Commission
in Trust for the Province of Ontario,

The Hamilton Street Railway Company—A Subsidiary of
Niagara System, and

Guelph Radial Railway—Operated by the Commission
on Behalf of the City of Guelph

IN this section of the Report financial statements relating to the activities of The Hydro-Electric Power Commission, segregated into certain distinct divisions, are presented. The first division relates to those activities on behalf of the co-operative municipalities, which are partners in the main "Hydro" undertaking comprising the Niagara, Georgian Bay, Eastern Ontario and Thunder Bay systems and certain minor properties. The second relates to the administration of the Northern Ontario Properties which are held and operated by the Commission in trust for the Province of Ontario. The third and fourth relate to The Hamilton Street Railway Company, a subsidiary of the Niagara system, and to the Guelph Radial Railway operated by the Commission for the city of Guelph.

Co-operative Systems

In the Foreword to this Report a brief reference is made to the basic principle governing the operations of the "Hydro" undertaking in supplying electrical service at cost, and to the *wholesale* and *retail* aspects of the work. a description is also given of the several systems into which the partner municipalities are co-ordinated for securing common action with respect to power supplies, through the medium of The Hydro-Electric Power Commission which, under The Power Commission Act, functions as their Trustee.

Although for the purpose of financial administration the various systems are separate units, there is a similarity of procedure with respect to their operation which enables certain financial statements, as for example the various reserves, to be co-ordinated and presented in summary tables.

The first set of tables in Section IX gives collective results for the co-operative activities related to the four systems and minor associated properties. These tables include a **balance sheet**; a **summarization of cost distribution** as detailed in the "cost of power" tables referred to below; schedules respecting **fixed assets, capital expenditures and grants—rural power districts; power accounts receivable, funded debt issued or assumed, depreciation and obsolescence reserves, contingencies and stabilization of rates reserves, sinking fund reserves and the account with the Provincial Treasurer of the Province of Ontario.**

The tables which follow these general financial statements relate more particularly to the individual municipality's aspects of the wholesale activities of the Commission and for each system show the **cost of power** to the individual municipal utilities, the **credit or debit** adjustment that is made at the end of the fiscal year, and the **sinking fund** equity that has been acquired by the individual municipality. There is also included for each system a **rural operating** statement.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. Each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use, together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The annual expenses and the appropriations for reserves are provided out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,* when the Commission's books are closed and the actual cost payable by each municipality for power taken has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such current expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for depreciation and obsolescence, for contingencies and for stabilization of rates. The first-mentioned reserve, namely, sinking fund, is being created on a 40-year basis for the purpose of liquidating capital liabilities. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out, to enable the undertaking to replace existing equipment with

*The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities, however, ends on December 31, and the municipal accounts are made up to this date, and so recorded in Section X.

improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of The Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

Tabular Data

The following comments relate to the tabular data presented:

Balance Sheet.—The first tabular statement given in Section IX is a balance sheet showing the assets, and the liabilities, reserves and equities of the several co-operative systems.

Summarization of Cost Distributions.—This statement is a summary of the “cost of power” tables relating to the individual systems as referred to more particularly below.

Fixed Assets.—Details are given concerning the various fixed assets of each system and of the miscellaneous properties, whilst similar details are shown of the capital expenditures for the year ended October 31, 1937.

Capital Expenditures and Grants—Rural Power Districts.—This schedule gives summary information respecting the total capital expenditures on rural power districts and grants-in-aid of construction paid or payable by the Province with respect to such rural districts.

Power Accounts Receivable.—This schedule sets forth the amounts collectible from all classes of power consumers and includes the annual adjustment figures from the “credit or charge” statements for municipalities. The main details of those debit balances three months or more overdue are stated.

Funded Debt Issued or Assumed.—This schedule presents a complete list of the securities issued or assumed by the Commission on account of the several systems, the Northern Ontario Properties and the Guelph Radial Railway. It should be noted that where securities have been issued to finance properties operated for others, this liability is only shown in memorandum form on the balance sheet of the Commission, whilst the direct liability is shown on the balance sheets of the Northern Ontario Properties and the Guelph Radial Railway.

Depreciation and Obsolescence Reserves**Contingencies Reserves and**

Stabilization of Rates Reserves.—These schedules show the provisions made to, the expenditures from, and the balance to the credit of, these reserves for each of the systems and other properties included in the power undertakings operated on a cost basis.

Sinking Fund Reserves.—This schedule summarizes the appropriation of principal and interest with respect to these reserves for each of the systems and certain minor properties.

Account with the Provincial Treasurer.—This schedule lists, both for the Niagara and other systems operated on a cost basis, and for the Northern Ontario Properties which are held and operated by the Commission in trust for the Province, the advances from the Province of Ontario and the repayments which have been applied to reduce this liability. It should be noted that Provincial advances to finance Northern Ontario Properties are shown in memorandum form only on the balance sheet of the Commission as the direct liability is carried on the Northern Ontario Properties' balance sheet.

Following these statements, which are common to all systems, there are given for each of the individual co-operative systems four tabular statements as follows:

Cost of Power statement, which shows the apportionment to each municipality or rural power district of the items of cost summarized in the operating account, as well as the apportionment of the fixed assets in service listed in the balance sheet and the amount of power taken by each municipality. It should be noted that the cost of power given in this table is the wholesale cost—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility or rural power district. In the case of rural power districts, the costs of power for the respective districts appear also in the “rural operating” statement, immediately following, as “cost of power delivered”; in the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement “B” of Section X as “power purchased”.

Rural Operating statement, which shows for each rural power district the various items of cost, and the revenues received, in connection with the distribution of electrical energy to consumers.

Credit or Charge statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility and rural power district to the actual cost of service to each municipality or district. The credits and charges for the municipal electric utilities are taken up and given effect to in the accounts of “Hydro” utilities before their operating records of each year are closed.

The credits and charges for rural power districts are carried on the balance sheet of the Commission as "rates suspense" items.

Sinking Fund statement, which gives the accumulated total of the amounts paid by each municipality and rural power district as part of the cost of power together with its proportionate share of other sinking funds.

Northern Ontario Properties

The statements and schedules respecting these properties which are held and operated by the Commission in trust for the Province of Ontario include the balance sheet, operating and income accounts, schedules of fixed assets, depreciation and obsolescence reserves, contingencies reserves, and sinking fund reserves. These schedules are similar in form to the corresponding schedules relating to the co-operative systems.

The Hamilton Street Railway Company

This is a subsidiary of the Niagara system of the Commission. A balance sheet and operating and income account are presented.

Guelph Radial Railway

This railway is operated by the Commission on behalf of the city of Guelph. A balance sheet and operating and income account are presented.

Municipal Utilities

All municipal "Hydro" utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserves to protect generating, transforming and transmission systems, the municipalities are taking similar action with respect to their local "Hydro" utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts", relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

Auditing of Accounts

The accounts of The Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and The Public Utilities Act requires that they shall be audited by the auditors of the municipal corporation.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FINANCIAL ACCOUNTS

For the Year Ended October 31, 1937

Relating to Properties operated on a "Cost Basis" for the Co-operating
Municipalities and Rural Power Districts which are supplied with
Electrical Power and Services from the following Properties:

Niagara System	Manitoulin Rural Power District
Georgian Bay System	Nipissing Rural Power Districts
Eastern Ontario System	Bonnechere Water Storage Works
Thunder Bay System	Service and Administrative Buildings and Equipment

STATEMENTS

Balance Sheet as at October 31, 1937

Summarization of Cost Distributions for the Year ended October 31, 1937

Schedules supporting the Balance Sheet as at October 31, 1937:—

Fixed Assets—By Systems and Properties

Capital Expenditures and Grants—Rural Power Districts

Power Accounts Receivable

Funded Debt Issued or Assumed

Depreciation and Obsolescence Reserves

Contingencies Reserves

Stabilization of Rates Reserves

Sinking Fund Reserves

Account with the Provincial Treasurer of the Province of Ontario

Detailed Statements for Municipalities and Rural Power Districts

THE HYDRO-ELECTRIC POWER

BALANCE SHEET AS AT OCTOBER 31, 1937

Niagara System	Eastern Ontario System
Georgian Bay System	Thunder Bay System

ASSETS

INVESTMENTS:

Fixed Assets:

Niagara system.....	\$217,008,414.96
Georgian Bay system.....	10,841,493.58
Eastern Ontario system.....	23,658,332.72
Thunder Bay system.....	19,548,207.90
Non-system properties.....	201,032.39
Service and administrative buildings and equipment.....	3,107,802.30

\$274,365,283.85

Less—Grants-in-aid of construction:

Province of Ontario—for rural power districts..... 11,951,891.63

\$262,413,392.22

Preliminary Expenditures—Inter-System:

St. Lawrence River surveys—1925 to 1928.....	\$ 734,873.31
Ottawa River surveys and undeveloped power sites.....	346,621.53
Ogoki River surveys.....	100,807.83

1,182,302.67

Miscellaneous Investments:

Toronto-Pt. Credit-St. Catharines Radial Rlys.—Secured.....	\$ 2,005,436.40
The Hamilton Street Rly. Co.—Capital stock and advances..	2,913,932.69
Investment securities.....	2,385,351.00
Sale agreements and mortgages.....	1,138,177.49

8,442,897.58

\$272,038,592.47

CURRENT AND ACCRUED ASSETS:

Cash in banks.....	\$ 1,796,025.34
Special deposits for matured interest and debentures unpaid.....	69,839.06
Sundry accounts receivable.....	586,099.91
Power accounts receivable.....	3,227,856.97
Rural power district grants receivable.....	221,529.53
Interest receivable.....	661,424.91
Northern Ontario Properties.....	967,419.55
Rural district loans.....	87,507.18
Consumers' and contractors' deposits:	
Special deposits.....	\$ 178,288.89
Securities—at par value.....	540,300.00

718,588.89

\$ 8,336,291.34

*Amount due from special funds—net..... 309,111.10

8,645,402.44

DEFERRED DEBITS:

Rural power districts—rates suspense.....	\$ 433,628.38
Maintenance materials and supplies.....	638,952.97
Construction materials and supplies.....	1,102,464.64
Construction and maintenance tools and equipment.....	735,885.39
Office furniture and equipment.....	65,711.30
Prepayments.....	123,643.71
Work in progress—water heater campaign.....	218,706.29
Work in progress—deferred work orders.....	12,838.88
Unamortized debenture discount.....	157,035.87
Miscellaneous deferred debits.....	16,256.67

3,505,124.10

SPECIAL FUNDS:

Reserve Funds:

Investments.....	\$ 42,666,487.73
*Amount due to current assets.....	464,310.59

\$ 42,202,177.14

Employers' Liability Insurance Fund:

Investments.....	\$ 877,758.62
Deposits with the Workmen's Compensation Board.....	38,759.37
*Amount receivable from current assets.....	62,851.00

979,368.99

Pension Fund:

Investments.....	\$ 5,069,477.50
*Amount receivable from current assets.....	20,434.37

5,089,911.87

Sinking Funds:

Investments.....	\$ 6,690,684.52
Deposits in the hands of trustees—including temporary investments.....	416,595.92
*Amount receivable from current assets.....	71,914.12

7,179,194.56

55,450,652.56

\$339,639,771.57

COMMISSION OF ONTARIO

IN WHICH THE FOLLOWING PROPERTIES ARE INCLUDED:

Local Distribution Systems	Bonnechere River Storage
Rural Power Districts	Service and Administrative Buildings and Equipment

LIABILITIES, RESERVES AND EQUITIES

LONG-TERM LIABILITIES:

Funded Debt Issued or Assumed.....	\$111,687,612.62	
Less—Debentures issued to finance properties operated for others:		
Northern Ontario Properties.....	\$ 24,000,000.00	
Guelph Radial Railway.....	300,000.00	
		\$ 24,300,000.00
		\$ 87,387,612.62
Advances from the Province of Ontario.....	\$150,491,796.86	
Less—Advances for Northern Ontario Properties.....	6,531,407.42	
		143,960,389.44
Purchase Agreements:		
Thunder Bay System transmission lines.....		202,489.86
		<u>\$231,550,491.92</u>

CURRENT AND ACCRUED LIABILITIES:

Bank of Montreal—demand loan—secured.....	\$ 500,000.00	
Accounts and payrolls payable.....	\$ 1,946,936.13	
Less—Amount for Northern Ontario Properties.....	111,084.77	
		1,835,851.36
Matured debenture interest unpaid.....		69,294.53
Matured debentures unpaid.....		6,055.00
Debt interest accrued.....		980,124.24
Interest accrued on Provincial advances.....	\$ 2,311,609.50	
Less—Amount for Northern Ontario Properties.....	122,451.47	
		2,189,158.03
Miscellaneous accrued interest.....		6,564.93
Miscellaneous accrued liabilities.....		63,987.40
Power accounts receivable—credit balances.....		29,190.80
Advances from the Province of Ontario for rural loans.....		91,224.52
Liability for consumers' and contractors' deposits.....		746,114.21
		<u>6,517,565.05</u>

DEFERRED CREDITS:

Rural power districts—rates suspense.....	\$ 1,482,106.92	
Unamortized premium on debentures.....	203,786.26	
Miscellaneous deferred credits.....	140,010.49	
		<u>1,825,903.67</u>

RESERVES:

Depreciation and obsolescence reserves:		
Additions to property through depreciation and obsolescence reserves.....	\$ 7,999,551.59	
Depreciation and obsolescence reserve funds.....	29,191,957.04	
		\$ 37,191,508.63
Contingency reserves.....	\$ 8,113,778.50	
Stabilization of rates reserves.....	4,823,014.18	
Fire insurance reserve.....	73,427.42	
		13,010,220.10
Employers' liability insurance reserve.....		979,368.99
Pension fund reserve.....		5,089,911.87
Miscellaneous reserves.....		137,981.99
		<u>56,408,991.58</u>

EQUITIES OF MUNICIPALITIES AND RURAL POWER DISTRICTS:

Municipalities' and Rural Power Districts' equities being the accumulated contributions of consumers including interest accretions for annual sinking fund appropriations, represented by:		
Funded debt retired through sinking funds.....	\$ 10,512,776.13	
Provincial advances retired through sinking funds.....	25,644,848.66	
Sinking funds.....	7,179,194.56	
		43,336,819.35
		<u>\$339,639,771.57</u>

Auditors' Certificate

We have examined the Accounts of The Hydro-Electric Power Commission of the Province of Ontario for the year ended the 31st October, 1937, and report that, in conjunction with our Annual Report to the Lieutenant-Governor in Council, in our opinion the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Commission's affairs at the 31st October, 1937, according to the best of our information and the explanations given to us and as shown by the books and records of the Commission. We have obtained all the information and explanations we have required.

Dated at Toronto, Ontario,
9th April, 1938

OSCAR HUDSON AND CO.,
Chartered Accountants,
Auditors.

THE HYDRO-ELECTRIC POWER
Summarization of Cost of Power for Each System

	Cost of power purchased	Operating, maintenance and admin- istrative expenses	Interest	Provision for depreciation and obsolescence	Provision for conting- encies
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
NIAGARA SYSTEM:					
Municipalities.....	2,643,901.96	2,631,865.14	6,489,836.77	991,192.28	429,304.53
Rural power districts....	131,438.22	203,433.84	381,938.77	71,114.21	27,024.28
Companies.....	1,041,794.06	1,033,142.10	2,215,020.62	307,188.65	142,045.03
Local distribution systems	19,248.18	85,803.16	64,739.42	11,994.35	5,487.25
Total.....	3,836,382.42	3,954,244.24	9,151,535.58	1,381,489.49	603,861.09
GEORGIAN BAY SYSTEM:					
Municipalities.....	43,414.80	264,805.59	272,983.96	78,204.29	21,934.70
Rural power districts....	9,713.81	42,795.98	47,095.30	14,113.05	3,879.65
Companies.....	2,069.83	10,175.87	12,558.07	3,685.72	1,022.70
Local distribution systems	970.15	12,839.74	10,065.52	3,580.34	1,355.69
Total.....	56,168.59	330,617.18	342,702.85	99,583.40	28,192.74
EASTERN ONTARIO SYSTEM:					
Municipalities.....	614,804.70	421,740.29	483,548.28	114,054.46	36,816.11
Rural power districts....	48,704.35	53,096.53	62,480.78	16,493.86	4,902.99
Companies.....	172,779.37	173,515.44	216,634.97	51,498.65	16,034.32
Local electric distribu- tion systems.....	12,549.84	42,539.04	24,980.99	8,131.39	1,303.62
Local gas distribution sys.	.....	15,216.86	1,199.62	.....	.....
Pulp mill.....	11,607.67	12,219.04	14,723.34	2,168.00	881.63
Total.....	860,445.93	718,327.20	803,567.98	192,346.36	59,938.67
THUNDER BAY SYSTEM:					
Municipalities.....	.....	172,962.09	543,455.42	103,521.53	55,105.49
Rural power districts....	.....	1,276.10	2,515.58	515.43	256.97
Companies.....	.....	123,257.22	332,747.50	53,866.61	30,344.02
Local distribution systems	.....	2,719.93	880.94	.....	.....
Total.....	.....	300,215.34	879,599.44	157,903.57	85,706.48
COST OF DISTRIBUTION OF POWER WITHIN RURAL POWER DISTRICTS:					
Niagara system R.P.D....	990,160.17	536,948.26	355,135.86	153,281.88	.....
Georgian Bay R.P.D....	140,905.58	77,278.76	51,414.09	21,731.45	.....
Eastern Ontario system R.P.D.....	226,209.79	151,104.37	95,576.31	40,866.43	.....
Thunder Bay system R.P.D.....	5,302.60	3,647.06	3,003.14	1,317.35	.....
Manitoulin R.P.D.....	3,750.00	1,364.82	1,605.15	657.90	.....
Nipissing R.P.D.....	6,114.83	2,703.50	1,894.04	639.40	.....
Total.....	1,372,442.97	773,046.77	508,628.59	218,494.41	.....
RURAL LINES OPERATED BY MUNICIPALITIES:					
Niagara rural lines.....	.....	.....	845.80	401.17	200.59
Georgian Bay rural lines.	.....	.....	156.39	57.00	28.50
Total.....	.....	.....	1,002.19	458.17	229.09

COMMISSION OF ONTARIO

for the Year Ended October 31, 1937

Provision for stabiliza- tion of rates	Provision for sinking fund	Operating balances in respect of power sold to private companies	Total cost	Amount received from (or billed against) municipalities and other customers	Amounts remaining to be credited or charged to municipalities	
					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,226,003.01	1,428,365.95	(403,103.31)	16,437,366.33	16,611,805.95	314,095.71	139,656.09
110,707.34	84,648.51	(20,145.00)	990,160.17	990,160.17	.....	.....
.....	509,134.48	417,428.67	5,665,753.61	5,665,753.61	.....	.....
689.65	12,445.88	5,819.64	206,227.53	206,227.53	.....	.....
2,337,400.00	2,034,594.82	.....	23,299,507.64	23,473,947.26	314,095.71	139,656.09
68,293.20	63,715.58	6,432.66	819,784.78	854,341.18	36,036.45	1,480.05
11,255.40	10,992.20	1,060.19	140,905.58	140,905.58	.....	.....
.....	2,931.10	(8,016.72)	24,426.57	24,426.57	.....	.....
.....	2,349.33	523.87	31,684.64	31,684.64	.....	.....
79,548.60	79,988.21	.....	1,016,801.57	1,051,357.97	36,036.45	1,480.05
215,509.00	101,965.98	20,513.07	2,008,951.89	2,129,551.49	120,717.97	118.37
24,990.00	13,162.60	2,378.68	226,209.79	226,209.79	.....	.....
.....	52,553.94	(32,307.55)	650,709.14	650,709.14	.....	.....
.....	2,289.39	16,449.86	108,244.13	108,244.13	.....	.....
.....	.....	(2,546.46)	13,870.02	13,870.02	.....	.....
.....	2,555.50	(4,487.60)	39,667.58	39,667.58	.....	.....
240,499.00	172,527.41	.....	3,047,652.55	3,168,252.15	120,717.97	118.37
122,914.75	124,205.53	(83,351.93)	1,038,812.88	1,044,675.71	7,165.43	1,302.60
508.25	574.93	(344.66)	5,302.60	5,302.60	.....	.....
.....	126,822.99	71,521.24	738,559.58	738,559.58	.....	.....
.....	1,592.55	12,175.35	17,368.77	17,368.77	.....	.....
123,423.00	253,196.00	.....	1,800,043.83	1,805,906.66	7,165.43	1,302.60
.....	81,690.32	.....	2,117,216.49	2,217,831.30	100,614.81	.....
.....	12,000.26	.....	303,330.14	293,423.36	.....	9,906.78
.....	21,925.82	.....	535,682.72	538,033.91	2,351.19	.....
.....	693.59	.....	13,963.74	14,681.81	718.07	.....
.....	377.24	.....	7,755.11	9,207.62	1,452.51	.....
.....	336.64	.....	11,688.41	13,823.19	2,134.78	.....
.....	117,023.87	.....	2,989,636.61	3,087,001.19	107,271.36	9,906.78
.....	361.05	.....	1,808.61	1,808.61	.....	.....
.....	51.31	.....	293.20	293.20	.....	.....
.....	412.36	.....	2,101.81	2,101.81	.....	.....

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1937

NIAGARA SYSTEM

	Net capital expendi- tures in the year	Fixed Assets			Total
		Under construc- tion	In service		
			Non-depreci- able including lands, water rights and intangible	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Power Plants:					
Niagara river:					
Queenston-Chippawa.	8,688.86	1,410.42	47,963,779.81	28,860,785.23	76,825,975.46
Ontario Power.....	14,508.20	4,963.89	7,281,151.42	14,803,443.92	22,089,559.23
Toronto Power.....	270.00		3,823,511.60	7,697,675.93	11,521,187.53
Ottawa river:					
Chats Falls.....	3,342.33	2,764.50	807,130.90	6,284,104.01	7,093,999.41
Welland canal:					
DeCew Falls.....	9,990.03	10,427.72	8,343,740.18	3,347,565.58	11,701,733.48
Hamilton Steam plant.	84.47	84.47	501,721.42		501,805.89
Kenogami river:					
Long Lac diversion...	339,158.09	339,158.09			339,158.09
	351,439.60	358,809.09	68,721,035.33	60,993,574.67	130,073,419.09
Transformer Stations:					
Southern Ontario....	3,604.88	178,172.71		26,453,749.12	26,631,921.83
Eastern—Chats Falls..	6,336.62	41,420.56		8,877,130.40	8,918,550.96
	9,941.50	219,593.27		35,330,879.52	35,550,472.79
Transmission Lines:					
Southern Ontario:					
Right-of-way.....	1,199.87		6,969,687.29		6,969,687.29
Lines.....	107,856.41	63,253.73		18,264,550.46	18,327,804.19
Eastern—Chats Falls:					
Right-of-way.....	2,918.42		1,641,679.99		1,641,679.99
Lines.....	7.56			7,501,382.03	7,501,382.03
	103,745.68	63,253.73	8,611,367.28	25,765,932.49	34,440,553.50
Local Systems:					
Niagara peninsula and Dundas area.....	14,449.46	23,839.67		208,417.28	232,256.95
Lincoln Electric:					
St. Catharines system ..				187,467.86	187,467.86
	14,449.46	23,839.67		395,885.14	419,724.81
Sub-total.....	243,185.96	665,495.76	77,332,402.61	122,486,271.82	200,484,170.19
Rural Power Districts..					
H-E.P.C. investment..	938,862.82	55,695.17		8,239,301.34	8,294,996.51
Government grants...	936,732.34	54,511.84		8,154,678.00	8,209,189.84
	1,875,595.16	110,207.01		16,393,979.34	16,504,186.35
Rural Lines:					
Welland and Milton...				20,058.42	20,058.42
	2,118,781.12	775,702.77	77,332,402.61	138,900,309.58	217,008,414.96

	Cost statements	Transfers for cost purposes	Fixed assets (as above)
	\$ c.	\$ c.	\$ c.
Cost of Power schedules.....	200,428,753.28	55,416.91	200,484,170.19
Rural Operating schedules.....	8,350,413.42	55,416.91	8,294,996.51
Rural Lines schedule.....	20,058.42		20,058.42

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1937

GEORGIAN BAY SYSTEM

	Net capital expendi- tures for the year	Fixed Assets			Total
		Under con- struction	In service		
			Non-depre- ciable incl. lands, water rights and intangible	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Power Plants:					
Musquash river:					
Bala No. 1 and No. 2 plants . .	40.00		70,468.43	50,610.70	121,079.13
Ragged Rapids	411,616.62	411,616.62			411,616.62
Lands and water rights (Ragged Rapids, Big Eddy, Sandy Grey and Go Home Developments)			48,023.87		48,023.87
Seyvern river:					
Wasdells	239.15		15,202.32	132,655.48	147,857.80
Big Chute	274.87	68.40	122,540.48	548,547.90	671,156.78
Preliminary surveys			4,107.56		4,107.56
Beaver river:					
Eugenia	18,858.54	763.07	148,980.43	1,086,695.74	1,236,439.24
Saugen river:					
Hanover and Maple Hill	200.00		16,000.00	29,682.55	45,682.55
Walkerton	295.00		97,721.83	115,584.03	213,305.86
Southampton	5,341.18		69,739.07	69,106.12	138,845.19
Muskoka river:					
South Falls . . . . .	.78		17,365.93	438,486.75	455,852.68
Trethewey Falls	74.32		51,549.45	305,516.82	357,066.27
Hanna Chute	1,600.00		34,520.82	207,624.55	242,145.37
Hollow Lake dam			16,555.34	29,540.16	46,095.50
Preliminary surveys			14,912.93		14,912.93
Sauble river:					
Lands and rights			20,959.59		20,959.59
Gull river:					
Lands and rights			5,859.20		5,859.20
	423,038.36	412,448.09	754,507.25	3,014,050.80	4,181,006.14
Transformer Stations	85,210.85	52,874.40		1,207,180.48	1,260,054.88
Transmission Lines	96,359.71	8,833.32		2,651,314.65	2,660,147.97
Local Systems	1,766.75			87,298.07	87,298.07
Sub-total	606,375.67	474,155.81	754,507.25	6,959,844.00	8,188,507.06
Rural Power Districts					
H-E.P.C. investment	347,801.52	56,359.41		1,322,291.57	1,378,650.98
Government grants	328,857.84	56,171.32		1,215,314.05	1,271,485.37
	676,659.36	112,530.73		2,537,605.62	2,650,136.35
Rural Lines:					
Brechin and Flesherton	42.74			2,850.17	2,850.17
	1283,077.77	586,686.54	754,507.25	9,500,299.79	10,841,493.58

	Cost statements	Transfers for cost purposes	Fixed assets (as above)
	\$ c.	\$ c.	\$ c.
Cost of Power schedules	8,176,107.22	12,399.84	8,188,507.06
Rural Operating schedules	1,391,050.82	12,399.84	1,378,650.98
Rural Lines schedule	2,850.17		2,850.17

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1937

EASTERN ONTARIO SYSTEM

	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable incl. lands, water rights and intangible	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Power Plants:					
Fenelon river:					
Fenelon Falls.....	325.00		60,000.00	84,404.33	144,404.33
Otonabee river:					
Auburn.....	1,119.55		31,400.00	288,330.33	319,730.33
Douro.....	68,478.30			68,478.30	68,478.30
Lakefield.....	235,111.73		19,050.77	216,060.96	235,111.73
Young's Point.....	9,182.89		2,180.81	7,002.08	9,182.89
Trent river:					
Heely Falls.....	663.65			1,186,180.78	1,186,180.78
Seymour.....	328.20			300,528.81	300,528.81
Ranney Falls.....	706.09	706.09		1,339,262.83	1,339,968.92
Ranney Falls No. 3.....	61,309.17	660.96	18,978.79	41,669.42	61,309.17
Hagues Reach.....	2,884.48			573,487.30	573,487.30
Meyersburg.....	102.08			836,958.33	836,958.33
Sills Island.....	257,704.45	676.68	38,654.36	218,373.41	257,704.45
Frankford.....	29.28	38.61		252,028.80	252,067.41
Sydney.....	1.39	4.76		252,100.29	252,105.05
Deer river:					
Cordova Power Site.....			2,234.69		2,234.69
Gull river:					
Norland and Elliot Chute Site.....			17,577.60		17,577.60
Mississippi river:					
High Falls.....			13,113.84	685,482.88	698,596.72
Carleton Place.....			7,929.06	49,847.10	57,776.16
Galetta.....	951.53		20,000.00	127,968.56	147,968.56
Ragged Chutes, Playfair and Appleton Sites.....			52,272.85		52,272.85
Rosebank and Blakeney Sites.....			23,321.18		23,321.18
Surveys.....			10,594.39		10,594.39
Madawaska river:					
Calabogie.....	5,669.91	5,669.91	79,991.00	660,272.02	745,932.93
Storage Dams.....	38.78		2,555.00	16,075.18	18,630.18
Undeveloped Sites.....	200,000.00		650,000.00		650,000.00
Miscellaneous equipment.....				46,504.47	46,504.47
Inactive plant.....		7.00			7.00
Intangible.....	56,711.02		2,217,761.29		2,217,761.29
	377,385.58	7,764.01	3,267,615.63	7,251,016.18	10,526,395.82
Transformer Stations.....	268,352.19	38,183.56		2,948,843.02	2,987,026.58
Transmission Lines.....	747,178.96	60,050.66	297,943.93	4,801,238.37	5,159,232.96
Local and Rural Systems.....	1,014.18			208,117.86	208,117.86
Campbellford Pulp Mill.....				52,559.93	52,559.93
Cobourg Gas Works.....				26,413.01	26,413.01
Sub-total.....	1,393,930.91	105,998.23	3,565,559.56	15,288,188.37	18,959,746.16
Rural Power Districts.....					
H-E.P.C. investment.....	437,490.08	42,631.78		2,326,894.81	2,369,526.59
Government grants.....	434,094.50	42,336.06		2,286,723.91	2,329,059.97
	871,584.58	84,967.84		4,613,618.72	4,698,586.56
	2,265,515.49	190,966.07	3,565,559.56	19,901,807.09	23,658,332.72

	Cost statement	Transfers for cost purposes	Miscellaneous investment	Fixed assets (as above)
	\$ c.	\$ c.	\$ c.	\$ c.
Cost of Power schedules.....	18,932,821.48	33,299.68	6,375.00	18,959,746.16
Rural Operating schedules.....	2,402,826.27	33,299.68		2,369,526.59

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1937

THUNDER BAY SYSTEM

	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable incl. lands, water rights and intangible	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Power Plants:					
Nipigon river:					
Cameron Falls.....	10,266.31	13,706.78	236,600.51	8,779,574.15	9,029,881.44
Alexander.....	3,678.74	235.16	76,898.44	5,372,115.91	5,449,249.51
Virgin Falls dam.....			55,450.41	426,736.74	482,187.15
Deficit 1921-1923.....			620,818.33		620,818.33
	6,587.57	13,941.94	989,767.69	14,578,426.80	15,582,136.43
Transformer Stations.....	112,680.31	83,225.51		1,058,993.36	1,142,218.87
Transmission Lines.....	588,083.59	8,239.04	314,574.85	2,317,333.74	2,640,147.63
Local Systems.....	42,077.51			42,077.51	42,077.51
Sub-total.....	749,428.98	105,406.49	1,304,342.54	17,996,831.41	19,406,580.44
Rural Power Districts.....					
H-E.P.C. investments.....	8,421.79	2,887.44		67,926.29	70,813.73
Government grants.....	8,421.79	2,887.44		67,926.29	70,813.73
	16,843.58	5,774.88		135,852.58	141,627.46
	766,272.56	111,181.37	1,304,342.54	18,132,683.99	19,548,207.90

	Cost statements	Preliminary expenditures	Fixed assets (as above)
	\$ c.	\$ c.	\$ c.
Cost of Power schedules.....	19,507,388.27	100,807.83	19,406,580.44
Rural Operating schedules.....	70,813.73		70,813.73

NON-SYSTEM PROPERTIES

	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable including water rights and intangible	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Bonnechere River Storage:					
Round Lake dam				23,185.58	23,185.58
Deficit 1917-1931			28,556.30		28,556.30
			28,556.30	23,185.58	51,741.88
Nipissing Rural Power District:					
H-E.P.C. investment	4,649.92			35,189.12	35,189.12
Government grants	4,649.91			34,445.37	34,445.37
Manitoulin Rural Power Dist.	9,299.83			69,634.49	69,634.49
Transformer station				5,098.11	5,098.11
Transmission lines					
H-E.P.C. investment	7,036.48	569.48		37,091.08	37,660.56
	7,036.48	569.48		42,189.19	42,758.67
Government grants	7,036.47	569.47		36,327.88	36,897.35
	14,072.95	1,138.95		78,517.07	79,656.02
	23,372.78	1,138.95	28,556.30	171,337.14	201,032.39

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
Fixed Assets—October 31, 1937
SERVICE AND ADMINISTRATIVE BUILDINGS AND EQUIPMENT

	Net capital expendi- tures in the year	Fixed Assets			Total
		Under con- struction	In service		
			Non- depreciable including lands	Depreciable	
Administrative Buildings	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Toronto:					
University Avenue.....	20.87		195,837.00	1,459,590.55	1,655,427.55
Elm and Centre Streets....				160,821.95	160,821.95
	20.87		195,837.00	1,620,412.50	1,816,249.50
Service Buildings and Equipment:					
Toronto.....	3,218.94			519,473.72	519,473.72
Cobourg.....	450.00			22,079.08	22,079.08
Hamilton.....			441,439.88	308,560.12	750,000.00
	3,668.94		441,439.88	850,112.92	1,291,552.80
	3,648.07		637,276.88	2,470,525.42	3,107,802.30

SUMMARY

	Net capital expendi- tures for the year	Fixed Assets				Total
		Under con- struction	In service			
			Non-depreci- able including lands, water rights and intangible	Depreciable		
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
Niagara system.....	2,118,781.12	775,702.77	77,332,402.61	138,900,309.58	217,008,414.96	
Georgian Bay system ...	1,283,077.77	586,686.54	754,507.25	9,500,299.79	10,841,493.58	
Eastern Ontario system .	2,265,515.49	190,966.07	3,565,559.56	19,901,807.09	23,658,332.72	
Thunder Bay system....	766,272.56	111,181.37	1,304,342.54	18,132,683.99	19,548,207.90	
Non-system properties...	23,372.78	1,138.95	28,556.30	171,337.14	201,032.39	
Service and administra- tive buildings and equipment.....	3,648.07	.....	637,276.88	2,470,525.42	3,107,802.30
	6,460,667.79	1,665,675.70	83,622,645.14	189,076,963.01	274,365,283.85	
Less: Grants-in-aid of construction:						
Province of Ontario— for rural power dis- tricts	1,719,792.85	156,476.13	.....	11,795,415.50	11,951,891.63
	4,740,874.94	1,509,199.57	83,622,645.14	177,281,547.51	262,413,392.22	

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
CAPITAL EXPENDITURES AND GRANTS—RURAL POWER DISTRICTS

Summary at October 31, 1937

Statement showing the Total Capital Expenditures to October 31, 1937, on the construction of Primary and Secondary lines in Rural Power Districts; the portion thereof in course of construction; and the investment in lines in operation; also the amounts of the Grants (fifty percent of both Primary and Secondary lines) paid or payable to the Commission by the Province of Ontario up to October 31, 1937

System	Total capital expenditure	In course of construction	In operation	Grants (50% of Primary and Secondary lines) paid or payable by the Province as authorized by Orders-in-Council*
	\$ c.	\$ c.	\$ c.	\$ c.
Niagara system.....	16,504,186.35	110,207.01	16,393,979.34	8,209,189.84
Georgian Bay system.....	2,650,136.35	112,530.73	2,537,605.62	1,271,485.37
Eastern Ontario system.....	4,698,586.56	84,967.84	4,613,618.72	2,329,059.97
Thunder Bay system.....	141,627.46	5,774.88	135,852.58	70,813.73
Non-System properties:				
Nipissing district.....	69,634.49	.....	69,634.49	34,445.37
Manitoulin district.....	74,557.91	1,138.95	73,418.96	36,897.35
Totals.....	24,138,729.12	314,619.41	23,824,109.71	11,951,891.63

*Grants not made by Province in respect of a summer resort, street lighting systems in 71 districts, service buildings in 2 districts and amounts paid for business already established (hereinafter called Intangible Assets) in 9 rural distribution systems purchased from private companies.

NOTE:

The Grants payable by the Province—as above set out—in respect of rural power districts as at October 31, 1937, amount in the aggregate to.....\$11,951,891.63

The cash paid over by the Province to the Commission up to October 31, 1937 on account of authorized grants to rural power districts—amounts to.....11,730,362.10

Balance payable by Province.....\$221,529.53

THE HYDRO-ELECTRIC POWER

Power Accounts Receivable

System or Property	Wholesale power consumers			
	Interim power bills	Accumulated amount standing as a charge or credit on October 31, 1937		Net total for wholesale consumers
		Charge	Credit	
	\$ c.	\$ c.	\$ c.	\$ c.
NIAGARA SYSTEM:				
Municipalities.....	1,608,033.98	146,032.57	318,696.27	1,435,370.28
Companies.....	601,575.07	.....	.....	601,575.07
Local and rural.....	.....	.....	.....	.....
Lincoln Electric.....	.....	.....	.....	.....
	2,209,609.05	146,032.57	318,696.27	2,036,945.35
GEORGIAN BAY SYSTEM:				
Municipalities.....	103,956.40	1,442.68	37,917.92	67,481.16
Companies.....	1,914.06	.....	.....	1,914.06
Local and rural.....	.....	.....	.....	.....
	105,870.46	1,442.68	37,917.92	69,395.22
EASTERN ONTARIO SYSTEM:				
Municipalities.....	268,394.21	112.99	123,861.89	144,645.31
Companies.....	41,653.46	.....	.....	41,653.46
Rural.....	.....	.....	.....	.....
Local.....	.....	.....	.....	.....
	310,047.67	112.99	123,861.89	186,298.77
THUNDER BAY SYSTEM:				
Municipalities.....	92,249.32	1,177.96	7,573.21	85,854.07
Companies.....	73,029.62	.....	.....	73,029.62
Rural and local.....	.....	.....	.....	.....
	165,278.94	1,177.96	7,573.21	158,883.69
NON-SYSTEM PROPERTIES:				
Nipissing rural.....	.....	.....	.....	.....
Manitoulin rural.....	.....	.....	.....	.....

Grand totals.....	2,790,806.12	148,766.20	488,049.29	2,451,523.03

COMMISSION OF ONTARIO

—October 31, 1937

Retail power consumers— local and rural districts	Net total power accounts receivable	Balance sheet figures		Debit balances three months or more overdue
		Debit balances	Credit balances	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	1,435,370.28	1,458,741.87	23,371.59	.....
.....	601,575.07	601,575.07	.....	57,068.27
469,076.00	469,076.00	469,076.00	.....	42,043.91
4,848.63	4,848.63	4,848.63	.....	.....
473,924.63	2,510,869.98	2,534,241.57	23,371.59	99,112.18
.....	67,481.16	69,208.34	1,727.18	.....
.....	1,914.06	1,914.06	.....	.....
102,351.74	102,351.74	102,351.74	.....	7,197.89
102,351.74	171,746.96	173,474.14	1,727.18	7,197.89
.....	144,645.31	148,737.34	4,092.03	.....
.....	41,653.46	41,653.46	.....	.....
147,347.21	147,347.21	147,347.21	.....	11,246.50
10,281.02	10,281.02	10,281.02	.....	.....
157,628.23	343,927.00	348,019.03	4,092.03	11,246.50
.....	85,854.07	85,854.07	.....	.....
.....	73,029.62	73,029.62	.....	.....
7,291.11	7,291.11	7,291.11	.....	1,178.76
7,291.11	166,174.80	166,174.80	.....	1,178.76
2,451.03	2,451.03	2,451.03	.....	40.12
3,496.40	3,496.40	3,496.40	.....	26.42
5,947.43	5,947.43	5,947.43	.....	66.54
747,143.14	3,198,666.17	3,227,856.97	29,190.80	118,801.87

THE HYDRO-ELECTRIC POWER
Funded Debt Issued or

Description	Application of proceeds
1¾/2/2-1/8/2¼/2-3/8% serial debentures.....	Repayment of Province of Ont. advances
4½% H-E.P.C. debentures.....	Refunding Toronto Power Co.
5% " "	Refunding Toronto Power Co.
6% " "	Toronto Power Co.
6% " "	T. & Y. R.R. equipment.
2½% " "	Refunding Gov't. advs. R. R., etc.
6% " "	Refunding Ontario Power Co.
3½% " "	Refunding D. P. & T. and E. D. Co.'s.
5% Ontario Power Co. bonds.....	Ontario Power Co.
2½% H-E.P.C. debentures.....	Refunding Gov't. advs. T. T., etc.
5% Ontario Transmission Co. bonds.....	Ontario Transmission Co.
4% H-E.P.C. debentures.....	Ontario Power Co.
4% " "	Essex system.
4% " "	Thorold system.
4¾% " "	Dom. Power & Trans. Co.
Municipal debentures assumed.....	
RADIAL RAILWAYS:	
6% H-E. Railway bonds.....	T. & Y. Radial.
Funded Debt as shown on the Balance Sheet of The Hydro-Electric Power Commission of Ontario.....	
NORTHERN ONTARIO PROPERTIES:	
3½/4/5% H-E.P.C. debentures.....	Ontario Power Service Corp'n
2½% H-E.P.C. debentures.....	Abitibi & St. Joseph districts.
2½% " "	Refunding Ontario Power Service Corp'n
3½% " "	and for financing plant extension.
GUELPH RADIAL RAILWAY:	
5% H-E. Railway bonds.....	Extensions and betterments.
Funded Debt relating to all properties vested in, or operated by the Commission.....	
Hydro-Electric Radial Railway bonds pledged with the Bank of Montreal as security for loan of \$500,000.00:	
5% H-E. Railway bonds.....	Pt. C. & St. C. Radial.
Hydro-Radial debentures assumed by S. W. & A. Rly. Co. and the Province of Ontario.....	Essex County Railway.

COMMISSION OF ONTARIO

Assumed—October 31, 1937

Date of issue	Date of maturity	Principal outstanding October 31, 1937	Interest for the year 1936-1937	Interest accrued October 31, 1937
		\$ c.	\$ c.	\$ c.
March 15, 1937	September 15, 1937/39	8,000,000.00	126,875.00	21,875.00
February 1, 1933	February 1, 1938	9,000,000.00	405,000.00	101,250.00
June 16, 1924	June 15, 1939	4,000,000.00	200,000.00	75,000.00
December 1, 1920	December 1, 1940	413,200.00	24,792.00	10,330.00
December 1, 1920	December 1, 1940	205,800.00	12,348.00	5,145.00
March 1, 1936	March 1, 1941	10,000,000.00	250,000.00	41,666.67
June 24, 1921	June 24, 1941	3,200,000.00	192,000.00	67,857.53
January 1, 1935	January 1, 1943	10,000,000.00	350,000.00	116,666.66
February 1, 1903	February 1, 1943	7,679,000.00	383,950.00	95,987.50
June 15, 1936	June 15, 1944	10,000,000.00	250,000.00	93,750.00
May 1, 1905	May 1, 1945	1,201,000.00	60,050.00	.....
August 1, 1917	August 1, 1957	8,000,000.00	320,000.00	80,000.00
June 1, 1918	June 1, 1958	200,000.00	8,000.00	3,333.34
December 1, 1918	December 1, 1958	100,000.00	4,000.00	1,666.67
January 1, 1930	January 1, 1970	13,000,000.00	617,500.00	205,833.33
Various	Various	84,999,000.00	3,204,515.00	920,361.70
		13,612.62	1,477.11	387.54
		85,012,612.62	3,205,992.11	920,749.24
December 1, 1920	December 1, 1940	2,375,000.00	142,500.00	59,375.00
.....	.....	87,387,612.62	3,348,492.11	980,124.24
October 1, 1932	April 1, 1937	17,626,950.00	257,055.40	.....
March 1, 1936	March 1, 1941	5,000,000.00	125,000.00	20,833.33
{ April 1, 1937	April 1, 1942	11,000,000.00	160,416.66	22,916.66
{ April 1, 1937	April 1, 1947	8,000,000.00	163,333.33	23,333.33
		24,000,000.00	705,805.39	67,083.32
May 1, 1931	November 1, 1970	300,000.00	15,000.00	.....
.....	.....	111,687,612.62	4,069,297.50	1,047,207.56
November 1, 1919	November 1, 1969	1,200,000.00	.....	.....

In respect of the Sandwich, Windsor and Amherstburg Railway:

The Commission having—on the advice of its Solicitors—decided that the bonds of \$5,816,205, issued by it between 1920 and 1926 (and guaranteed by the Province of Ontario), under the provisions of the Hydro-Electric Railway Act, in purchase of the Sandwich, Windsor and Amherstburg Railway and to make extensions and betterments thereto, ceased to be a liability of the Commission upon the passing of the Sandwich, Windsor and Amherstburg Railway Act in 1930 and upon the transfer of the Railway to the Sandwich, Windsor and Amherstburg Railway Company in 1931, such bonds have not been reflected as a liability in this Statement.

THE HYDRO-ELECTRIC POWER

Depreciation and Obsolescence

	Niagara system	Georgian Bay system
	\$ c.	\$ c.
Balances at November 1, 1936.....	25,555,484.76	1,946,448.24
Provisions in the year as per cost statements.....	1,535,172.54	121,371.85
Interest at 4% on reserves' balances.....	1,022,219.39	77,857.93
Adjustments re transfer of equipment.....	(40,048.41)	78.54
Sub-total.....	28,072,828.28	2,145,756.56
Expenditures for the year.....	337,628.69	40,312.22
Balances at October 31, 1937.....	27,735,199.59	2,105,444.34
Account balances:		
Power plants, transmission lines and transformer stations.....	24,782,640.21	1,833,237.53
Rural power districts.....	2,946,740.50	271,362.52
Rural lines.....	5,818.88	844.29
Nipissing rural power districts.....		
Manitoulin rural power district.....		
Administrative office building.....		
Service buildings and equipment.....		
	27,735,199.59	2,105,444.34

COMMISSION OF ONTARIO

Reserves—October 31, 1937

Eastern Ontario system	Thunder Bay system	Non-system properties	Service and administrative buildings and equipment	Total for power undertakings operated on a "cost basis"
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,230,875.30	1,992,727.51	12,096.57	494,614.75	34,232,247.13
233,212.79	159,220.92	1,297.30	12,412.09	2,062,687.49
169,235.01	79,709.10	483.86	16,673.50	1,366,178.79
(6,524.59)	431.38	.....	.....	(46,063.08)
4,626,798.51	2,232,088.91	13,877.73	523,700.34	37,615,050.33
38,021.98	5,030.45	.....	2,548.36	423,541.70
4,588,776.53	2,227,058.46	13,877.73	521,151.98	37,191,508.63
4,028,015.70	2,213,153.21	.....	.....	32,857,046.65
560,760.83	13,905.25	.....	.....	3,792,769.10
.....	.....	.....	.....	6,663.17
.....	.....	8,076.45	.....	8,076.45
.....	.....	5,801.28	.....	5,801.28
.....	.....	.....	157,877.63	157,877.63
.....	.....	.....	363,274.35	363,274.35
4,588,776.53	2,227,058.46	13,877.73	521,151.98	37,191,508.63

THE HYDRO-ELECTRIC POWER

Contingency Reserves

	Niagara system	Georgian Bay system
	\$ c.	\$ c.
Balances at November 1, 1936.....	4,236,145.34	537,888.76
Provision in the year as per cost statement.....	604,061.68	28,221.24
Interest at 4% on reserves' balances.....	169,445.82	21,515.55
Profits from sale of securities.....	30,604.47	2,552.12
The amounts provided in previous years in excess of re- quirements in respect of certain doubtful accounts now settled.....	234,516.17	.....
Sub-total.....	5,274,773.48	590,177.67
Contingencies met with during year.....	197,606.41	22,700.56
Terminal Building—Hamilton.....	29,303.19	.....
Balance at October 31, 1937.....	5,047,863.88	567,477.11
Account balances:		
Power plants, transmission lines, transformer stations and rural power districts.....	5,044,873.33	567,097.36
Rural lines.....	2,990.55	379.75
Nipissing rural power districts.....	.....	.....
Manitoulin rural power district.....	.....	.....
	5,047,863.88	567,477.11

COMMISSION OF ONTARIO

—October 31, 1937

Eastern Ontario system	Thunder Bay system	Non-system properties	Total for power undertakings operated on a "cost basis"
\$ c. 1,410,145.81 59,938.67 56,405.83 5,794.93	\$ c. 871,195.42 85,706.48 34,847.82 2,942.06	\$ c. 4,227.35 169.09	\$ c. 7,059,602.68 777,928.07 282,384.11 41,893.58 234,516.17
1,532,285.24	994,691.78	4,396.44	8,396,324.61
30,039.63	2,896.32 .....	..... .....	253,242.92 29,303.19
1,502,245.61	991,795.46	4,396.44	8,113,778.50
1,502,245.61	991,795.46 ..... ..... .....	..... ..... 2,456.40 1,940.04	8,106,011.76 3,370.30 2,456.40 1,940.04
1,502,245.61	991,795.46	4,396.44	8,113,778.50

THE HYDRO-ELECTRIC POWER

Stabilization of Rates Reserves

	Niagara system
	\$ c.
Balances at November 1, 1936.....	1,963,599.60
Appropriations in the year as per cost statement.....	2,337,400.00
Interest at 4% on stabilization balances.....	78,543.98
Balance as at October 31, 1937.....	4,379,543.58
Account balances:	
Systems.....	4,379,543.58

THE HYDRO-ELECTRIC POWER

Sinking Fund Reserves

	Niagara system	Georgian Bay system
	\$ c.	\$ c.
Balances at November 1, 1936.....	33,960,834.18	1,329,084.17
Sinking fund in the year as per cost statement.....	2,116,646.19	92,039.78
Interest at 4% on reserves' balances.....	1,358,433.37	53,163.37
Total.....	3,475,079.56	145,203.15
Balances at October 31, 1937.....	37,435,913.74	1,474,287.32
Account balances:		
Systems.....	36,614,799.19	1,390,540.97
Rural power districts.....	806,908.34	82,540.79
Rural lines.....	14,206.21	1,205.56
Bonnechere River storage system.....		
Nipissing rural power districts.....		
Manitoulin rural power district.....		
Administrative office buildings.....		
Service buildings and equipment.....		
	37,435,913.74	1,474,287.32

COMMISSION OF ONTARIO

—October 31, 1937

Georgian Bay system	Eastern Ontario system	Thunder Bay system	Total for power undertakings operated on a "cost basis"
\$ c.	\$ c.	\$ c.	\$ c.
79,548.60	240,499.00	123,423.00	1,963,599.60
			2,780,870.60
			78,543.98
79,548.60	240,499.00	123,423.00	4,823,014.18
79,548.60	240,499.00	123,423.00	4,823,014.18

COMMISSION OF ONTARIO

—October 31, 1937

Eastern Ontario system	Thunder Bay system	Non-system properties	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,762,211.23	1,657,176.86	12,458.00	367,188.85	39,088,953.29
194,453.23	253,889.59	2,451.48	24,827.66	2,684,307.93
70,488.45	66,287.07	498.32	14,687.55	1,563,558.13
264,941.68	320,176.66	2,949.80	39,515.21	4,247,866.06
2,027,152.91	1,977,353.52	15,407.80	406,704.06	43,336,819.35
1,866,270.66	1,974,018.72			41,845,629.54
160,882.25	3,334.80			1,053,666.18
				15,411.77
		11,519.37		11,519.37
		1,974.05		1,974.05
		1,914.38		1,914.38
			241,951.94	241,951.94
			164,752.12	164,752.12
2,027,152.91	1,977,353.52	15,407.80	406,704.06	43,336,819.35

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Account with
The Provincial Treasurer of the Province of Ontario
As at October 31, 1937

ADVANCES FROM AND REPAYMENTS TO THE PROVINCE OF ONTARIO

	Total	Northern Ontario Properties operated for the Province of Ontario	Niagara and other systems operated on a "cost basis"
	\$ c.	\$ c.	\$ c.
ADVANCES FOR CAPITAL EXPENDITURES:			
Cash advances made by the Province to the Commission for capital expenditures purposes during the years 1909 to 1934 inclusive.....	207,250,258.34	8,272,889.39	198,977,368.95
Cash returned by the Commission to the Province on April 30, 1935, to cover the difference between advances made by the Province to the Commission during the year ended October 31, 1934, and the capital expenditures made out of such advances by the Commission in that year	247,507.98	74,001.99	173,505.99
Total advances for capital expenditures.....	207,002,750.36	8,198,887.40	198,803,862.96
REPAYMENTS OF ADVANCES—1926-33:			
Cash repayments made by the Commission to the Province during the years 1926 to 1933 inclusive, which have been applied in each subsequent year to reduce the Commission's share in maturing Provincial obligations.....	17,008,616.73	.....	17,008,616.73
Commission's Share in Provincial Bonds at Oct. 31, 1934.....	189,994,133.63	8,198,887.40	181,795,246.23
REPAYMENTS OF ADVANCES:			
Retirements of Commission's share of Provincial bonds matured in the period Nov. 1, 1934, to Oct. 31, 1937—			
In year ending Oct. 31, 1935.....	3,946,628.69		
" " " " 1936.....	21,998,092.45		
" " " " 1937.....	13,557,615.63		
	39,502,336.77	1,667,479.98	37,834,856.79
Commission's share in Provincial bonds at Oct. 31, 1937.....	150,491,796.86	6,531,407.42	143,960,389.44

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

DETAILED STATEMENTS

FOR MUNICIPALITIES AND RURAL POWER DISTRICTS

For the Year ended October 31, 1937

Cost of Power.....	Charges to Municipalities and Rural Power Districts
Rural Operating.....	Charges to Rural Power Districts
Credit or Charge.....	Accumulated Balances of Municipalities and Rural Power Districts on account of Annual Cost Adjustments.
Sinking Fund.....	Equities of Municipalities and Rural Power Districts

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount received by the Commission
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To July 31 1937	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	29.50	27.50	217,754.07	868.0	3,349.26	4,225.04	9,970.87
Agincourt.....	37.50	35.50	46,598.68	154.9	597.70	974.36	2,134.85
Ailsa Craig.....	48.50	46.50	33,695.48	95.5	368.50	996.86	1,545.73
Alvinston.....	72.50	70.50	45,177.89	84.7	326.82	1,620.30	2,079.61
Amherstburg.....	35.50	33.50	175,029.45	663.3	2,559.40	3,929.79	8,025.98
Ancaster twp.....	29.50	27.50	59,113.23	261.4	1,008.64	1,696.44	2,708.07
Arkona.....	69.50	67.50	27,612.54	50.9	196.40	945.81	1,270.87
Aylmer.....	32.50	30.50	140,277.33	572.1	2,207.50	3,625.56	6,426.08
Ayr.....	31.50	29.50	46,559.41	188.5	727.34	1,083.96	2,085.31
Baden.....	30.50	28.50	78,598.93	328.9	1,269.09	1,942.98	3,600.88
Beachville.....	30.50	28.50	108,261.39	467.6	1,804.28	2,631.48	4,960.78
Belle River.....	37.50	35.50	37,318.92	137.2	529.40	1,021.00	1,708.31
Blenheim.....	36.50	34.50	102,713.57	387.1	1,493.66	3,010.00	4,718.54
Blyth.....	51.50	49.50	36,441.68	96.0	370.42	1,073.79	1,667.83
Bolton.....	40.50	38.50	38,573.15	129.5	499.69	949.73	1,746.67
Bothwell.....	44.50	42.50	33,022.22	113.5	437.95	1,307.07	1,512.86
Brampton.....	29.00	27.00	531,177.75	2,519.5	9,721.71	13,875.12	24,340.78
Brantford.....	24.50	22.50	3,102,443.98	15,119.7	58,340.71	59,704.14	141,488.71
Brantford twp.....	29.50	27.50	133,238.55	643.2	2,481.84	4,621.63	6,068.70
Bridgeport.....	33.50	31.50	29,814.78	113.5	437.95	656.00	1,365.74
Brigden.....	62.50	60.50	32,483.96	69.7	268.94	1,178.13	1,491.86
Brussels.....	47.50	45.50	46,628.99	130.3	502.77	1,300.83	2,134.05
Burford.....	32.50	30.50	36,254.22	148.4	572.61	861.88	1,661.79
Burgessville.....	52.50	50.50	12,995.65	34.6	133.51	622.60	597.42
Caledonia.....	29.50	27.50	64,791.90	291.3	1,124.01	1,479.66	2,968.28
Campbellville.....	57.50	55.50	11,667.67	29.4	113.44	493.15	534.91
Cayuga.....	45.50	43.50	39,223.87	109.9	424.06	919.21	1,796.76
Chatham.....	28.50	26.50	1,116,531.41	5,041.7	19,453.85	25,992.14	51,167.39
Chippawa.....	23.50	21.50	45,448.02	267.1	1,030.63	1,021.79	2,083.13
Clifford.....	53.50	51.50	29,887.58	69.9	269.72	766.61	1,370.40
Clinton.....	35.50	33.50	130,597.83	474.4	1,830.51	3,649.60	5,970.88
Comber.....	43.50	41.50	45,172.89	139.6	538.66	1,257.92	2,079.51
Cottam.....	42.50	40.50	19,175.64	60.8	234.60	634.82	878.83
Courtright.....	67.50	65.50	20,731.05	38.9	150.10	720.89	947.36
Dashwood.....	47.50	45.50	25,405.20	76.2	294.02	765.79	1,183.51
Delaware.....	38.50	36.50	12,463.06	51.0	196.79	439.14	549.12
Dorchester.....	39.50	37.50	23,742.31	83.7	322.96	691.56	1,086.67
Drayton.....	53.50	51.50	42,566.22	100.4	387.40	1,204.37	1,951.72
Dresden.....	41.50	39.50	91,084.17	305.5	1,178.80	2,651.88	4,174.63
Drumbo.....	38.50	36.50	17,612.28	64.6	249.26	524.01	809.45

SYSTEM

N—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,915.32	716.99	2,821.00	2,211.83	513.32	24,696.99	25,137.22	440.23
425.39	137.81	503.43	476.48	91.61	5,158.41	5,723.39	564.98
356.78	105.88	310.38	346.57	56.48	3,974.22	4,582.47	608.25
544.55	139.32	275.27	470.38	50.09	5,406.16	6,094.76	688.60
1,544.93	582.26	2,155.71	1,783.72	392.27	20,189.52	23,202.68	3,013.16
482.79	187.47	849.55	598.31	154.59	7,376.68	7,569.24	192.56
334.17	86.59	165.43	287.54	30.10	3,256.71	3,513.33	256.62
1,208.77	448.10	1,859.33	1,424.30	338.33	16,861.31	18,276.75	1,415.44
389.26	148.27	612.62	461.93	111.48	5,397.21	5,828.72	431.51
665.22	257.82	1,068.92	797.33	194.51	9,407.73	9,876.70	468.97
894.28	362.78	1,519.70	1,097.09	276.53	12,993.86	14,014.31	1,020.45
335.35	124.35	445.90	380.04	81.14	4,463.21	5,068.71	605.50
925.69	342.72	1,258.08	1,048.94	228.93	12,568.70	13,930.77	1,362.07
394.46	115.29	312.00	374.61	56.77	4,251.63	4,894.26	642.63
366.88	115.57	420.87	389.59	76.58	4,412.42	5,173.03	760.61
313.80	110.52	368.88	337.31	67.12	4,321.27	4,990.01	668.74
4,022.80	1,616.67	8,188.37	5,361.81	1,490.00	65,637.26	71,729.13	6,091.87
23,560.99	9,941.49	48,244.94	31,166.26	6,826.63	365,620.61	365,194.89	(425.72)
985.23	418.14	2,090.40	1,335.40	380.38	17,620.96	18,638.64	1,017.68
269.89	96.57	368.88	303.47	67.12	3,431.38	3,735.91	304.53
376.20	106.15	226.52	336.60	41.22	3,943.18	4,318.96	375.78
492.91	149.60	423.48	478.62	77.06	5,405.20	6,117.97	712.77
313.03	122.21	482.30	368.27	87.76	4,294.33	4,740.09	445.76
141.65	40.83	112.45	134.16	20.46	1,762.16	1,795.85	33.69
521.76	208.80	946.72	655.36	172.27	7,732.32	8,445.99	713.67
129.14	35.17	95.55	120.27	17.39	1,504.24	1,672.63	168.39
418.65	119.91	357.18	402.94	64.99	4,373.72	4,939.71	565.99
8,685.53	3,630.02	16,385.53	11,295.15	2,981.60	133,628.01	141,221.47	7,593.46
283.24	131.78	868.08	454.03	157.96	5,714.72	6,134.10	419.38
338.35	93.78	227.18	308.64	41.34	3,333.34	3,701.08	367.74
1,205.17	407.16	1,541.80	1,328.79	280.55	15,653.36	16,086.39	433.03
457.64	145.18	453.70	465.19	82.56	5,315.24	5,988.00	672.76
188.51	62.85	197.60	196.43	35.96	2,357.68	2,552.90	195.22
247.56	61.84	126.43	214.25	23.00	2,445.43	2,603.31	157.88
268.34	81.13	247.65	265.07	45.06	3,060.45	3,584.37	523.92
99.98	38.80	165.75	121.51	30.16	1,580.93	1,933.64	352.71
224.86	77.13	272.02	242.08	49.50	2,867.78	3,261.05	393.27
480.51	130.71	326.30	439.49	59.38	4,861.12	5,317.46	456.34
878.26	298.87	992.88	931.50	180.67	10,926.15	12,521.06	1,594.91
164.46	57.11	209.95	180.11	38.20	2,156.15	2,452.19	296.04

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Share of operating		
	To July 31 1937	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Dublin.....	57.00	55.00	15,438.10	38.1	147.02	688.58	707.05
Dundas.....	24.50	22.50	353,524.79	1,820.5	7,024.56	6,448.88	16,199.33
Dunnville.....	29.50	27.50	213,636.09	974.1	3,758.65	4,559.87	9,789.31
Dutton.....	35.50	33.50	56,155.73	223.9	863.94	1,885.57	2,573.21
Elmira.....	33.50	31.50	164,427.71	636.9	2,457.54	3,183.33	7,534.46
Elora.....	33.50	31.50	81,204.25	306.4	1,182.27	1,969.03	3,718.25
Embro.....	44.50	42.50	30,053.91	103.0	397.43	953.48	1,376.87
Erieau.....	51.50	49.50	29,800.04	83.5	322.19	862.66	1,367.75
Erie Beach.....	62.50	60.50	7,858.08	19.9	76.79	267.01	360.60
Essex.....	33.50	31.50	122,837.66	466.6	1,800.42	2,721.97	5,630.84
Etobicoke twp....	25.50	23.50	942,104.29	4,556.8	17,582.82	17,913.09	43,127.93
Exeter.....	36.50	34.50	118,146.46	423.9	1,635.66	3,208.92	5,412.50
Fergus.....	33.50	31.50	273,644.52	1,072.2	4,137.18	5,707.05	12,530.03
Fonthill.....	31.50	29.50	23,079.35	114.6	442.19	893.74	1,057.64
Forest.....	43.50	41.50	119,142.04	365.2	1,409.16	3,523.88	5,503.19
Galt.....	24.50	22.50	1,378,003.40	6,729.6	25,966.76	30,183.48	63,142.52
Georgetown.....	33.50	31.50	324,456.92	1,212.3	4,677.77	6,537.08	14,860.62
Glencoe.....	53.50	51.50	73,961.17	189.7	731.97	2,014.80	3,391.22
Goderich.....	40.50	38.50	342,191.05	1,092.1	4,213.96	9,558.88	15,576.88
Granton.....	50.50	48.50	19,772.87	56.8	219.17	686.76	880.69
Guelph.....	25.50	23.50	1,848,954.82	9,084.1	35,051.81	38,030.21	84,667.66
Hagersville.....	30.50	28.50	165,567.60	658.7	2,541.65	2,971.31	7,591.54
Hamilton.....	22.00	20.00	19,234,645.31	104,252.1	402,266.05	325,574.43	881,456.89
Harriston.....	40.50	38.50	95,881.46	311.5	1,201.95	2,929.88	4,399.04
Harrow.....	36.50	34.50	114,022.65	412.3	1,590.90	2,591.71	5,226.42
Hensall.....	47.50	45.50	58,596.42	157.3	606.96	1,384.68	2,683.92
Hespeler.....	26.50	24.50	391,480.25	1,897.2	7,320.52	8,734.54	17,938.18
Highgate.....	44.50	42.50	22,189.67	68.3	263.54	692.61	1,016.53
Humberstone.....	26.50	24.50	87,529.20	409.2	1,578.93	1,757.73	4,010.75
Ingersoll.....	26.50	24.50	487,274.00	2,244.9	8,662.15	10,571.33	22,334.67
Jarvis.....	37.50	35.50	55,003.48	178.5	688.76	1,068.09	2,521.28
Kingsville.....	36.50	34.50	133,074.61	474.0	1,828.97	2,928.03	6,099.56
Kitchener.....	24.50	22.50	3,927,128.73	19,363.2	74,714.63	74,434.28	179,924.80
Lambeth.....	39.50	37.50	28,377.38	99.0	382.00	862.11	1,300.54
LaSalle.....	34.50	32.50	51,782.81	196.2	757.06	1,519.88	2,372.82
Leamington.....	35.50	33.50	378,407.51	1,351.7	5,215.66	8,366.83	17,335.13
Listowel.....	34.50	32.50	246,770.93	964.9	3,723.15	6,850.50	11,328.09
London.....	24.50	22.50	6,524,715.36	32,635.0	126,117.99	124,220.21	298,996.34
London twp.....	31.50	29.50	98,910.82	428.5	1,653.41	2,389.04	4,531.95
Long Branch.....	27.50	25.50	168,235.15	774.0	2,986.55	3,574.71	7,708.05

SYSTEM

N—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
171.34	56.00	123.83	159.05	22.53	2,030.34	2,145.02	114.68
2,490.48	1,085.10	5,916.62	3,554.88	1,076.62	41,643.23	43,650.50	2,007.27
1,746.49	731.57	3,165.82	2,160.09	576.07	25,335.73	28,243.53	2,907.80
492.16	180.59	727.68	570.82	132.41	7,161.56	7,834.69	673.13
1,472.18	543.59	2,069.92	1,673.15	376.65	18,557.52	20,979.08	2,421.56
741.17	266.65	995.80	826.44	181.20	9,518.41	10,087.41	569.00
290.09	97.73	334.75	307.01	60.91	3,696.45	4,517.16	820.71
314.34	94.42	271.38	306.75	49.38	3,490.11	4,232.31	742.20
86.26	24.91	64.67	81.08	11.77	949.55	1,222.46	272.91
1,081.85	410.66	1,516.45	1,251.30	275.94	14,137.55	15,322.88	1,185.33
6,902.67	2,963.77	14,809.60	9,491.53	2,694.84	110,096.57	113,830.70	3,734.13
1,108.98	377.32	1,377.67	1,205.10	250.69	14,075.46	15,241.35	1,165.89
2,435.85	887.06	3,484.65	2,781.27	634.09	31,329.00	35,316.46	3,987.46
174.98	67.43	372.45	232.50	67.77	3,173.16	3,548.28	375.12
1,213.09	401.19	1,186.90	1,231.48	215.97	14,252.92	15,675.58	1,422.66
10,184.23	4,364.82	21,871.20	13,890.85	3,979.80	165,624.06	161,412.91	(4,211.15)
2,981.33	1,035.31	3,939.98	3,304.17	716.94	36,619.32	39,984.98	3,365.66
807.15	234.49	616.52	762.20	112.19	8,446.16	10,048.96	1,602.80
3,374.48	1,034.45	3,549.32	3,480.24	645.86	40,142.35	42,343.73	2,201.38
199.53	58.25	184.60	197.23	33.59	2,392.64	2,845.19	452.55
13,595.51	5,921.88	29,523.32	18,620.54	5,372.23	220,038.70	227,084.50	7,045.80
1,468.05	532.57	2,140.78	1,684.23	389.55	18,540.58	19,631.51	1,090.93
127,711.89	58,525.78	338,819.33	192,943.74	61,653.32	2,265,644.79	2,240,468.97	(25,175.82)
948.10	313.91	1,012.38	982.56	184.22	11,603.60	12,450.01	846.41
1,038.15	377.85	1,339.98	1,163.39	243.83	13,084.57	14,782.02	1,697.45
632.84	178.85	511.23	602.55	93.03	6,508.00	7,385.15	877.15
2,916.06	1,238.01	6,165.90	3,947.63	1,121.98	47,138.86	49,276.89	2,138.03
223.61	71.11	221.97	227.40	40.39	2,676.38	3,004.02	327.64
694.05	290.84	1,329.90	884.05	242.00	10,304.25	10,630.70	326.45
3,807.87	1,561.08	7,295.92	4,926.19	1,327.61	57,831.60	58,343.60	512.00
549.89	172.58	580.12	563.15	105.56	6,038.31	6,601.38	563.07
1,223.33	449.17	1,540.50	1,358.43	280.32	15,147.67	17,059.47	1,911.80
28,656.26	12,520.69	62,930.40	39,564.42	11,451.16	461,294.32	464,474.45	3,180.13
270.95	90.03	321.75	289.83	58.55	3,458.66	3,867.37	408.71
456.59	174.96	637.65	527.34	116.03	6,330.27	6,656.01	325.74
3,469.25	1,225.40	4,393.02	3,860.25	799.38	43,066.16	47,045.95	3,979.79
2,183.76	817.01	3,135.92	2,514.90	570.63	29,982.70	32,775.74	2,793.04
46,733.24	20,591.10	106,226.23	65,699.82	19,329.51	769,255.42	784,836.67	15,581.25
813.24	317.44	1,392.62	1,002.12	253.41	11,846.41	13,290.59	1,444.18
1,297.79	536.45	2,515.50	1,700.18	457.73	19,861.50	20,887.48	1,025.98

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount received by the Commission
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Share of operating		
	To July 31 1937	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Lucan.....	35.50	33.50	39,120.51	152.1	586.89	1,406.36	1,725.30
Lynden.....	35.50	33.50	21,466.66	84.2	324.89	542.38	983.44
Markham.....	34.50	32.50	77,905.88	303.3	1,170.31	2,525.26	3,569.08
Merlin.....	43.50	41.50	20,671.26	64.9	250.42	608.61	950.49
Merritton.....	21.50	19.50	885,488.48	5,183.5	20,001.00	17,107.03	39,854.39
Milton.....	32.50	30.50	222,272.77	950.7	3,668.36	6,338.25	10,200.80
Milverton.....	33.50	31.50	73,934.99	282.4	1,089.67	1,810.94	3,387.87
Mimico.....	23.50	21.50	420,689.99	2,160.4	8,336.10	8,426.64	19,276.67
Mitchell.....	31.50	29.50	109,768.19	456.0	1,759.52	3,029.73	5,030.60
Moorefield.....	62.50	60.50	18,477.90	39.6	152.80	713.44	842.50
Mount Brydges....	39.50	37.50	28,853.14	107.5	414.80	1,165.39	1,275.71
Newbury.....	51.50	49.50	14,988.07	42.1	162.45	451.31	686.56
New Hamburg....	32.50	30.50	115,563.68	455.0	1,755.66	2,278.50	5,294.10
New Toronto.....	27.50	25.50	1,416,856.27	6,517.3	25,147.57	28,418.87	64,903.96
Niagara Falls.....	19.00	17.00	1,371,208.39	8,958.5	34,567.17	25,804.57	62,862.74
Niagara-on-the Lake.....	24.50	22.50	92,372.53	530.1	2,045.44	3,224.45	4,233.74
Norwich.....	32.50	30.50	84,540.23	344.9	1,330.83	2,266.91	3,875.41
Oil Springs.....	41.50	39.50	60,436.04	195.9	755.90	1,766.61	2,769.52
Otterville.....	42.50	40.50	29,581.54	95.4	368.11	895.52	1,354.61
Palmerston.....	37.50	35.50	111,673.44	402.6	1,553.47	3,324.58	5,124.78
Paris.....	25.50	23.50	254,878.89	1,238.4	4,778.48	5,432.40	11,675.95
Parkhill.....	57.50	55.50	64,170.38	136.9	528.24	1,330.91	2,942.21
Petrolia.....	37.50	35.50	266,433.28	938.7	3,622.05	8,222.01	12,209.44
Plattsville.....	47.50	45.50	25,300.71	71.0	273.96	653.53	1,161.74
Point Edward.....	35.50	33.50	260,889.79	1,066.4	4,114.80	9,713.26	11,946.70
Port Colborne.....	26.50	24.50	335,314.71	1,567.6	6,048.72	6,313.00	15,364.78
Port Credit.....	31.50	29.50	142,139.72	622.9	2,403.52	3,884.91	6,511.98
Port Dalhousie....	27.50	25.50	136,622.48	650.2	2,508.85	2,986.01	6,184.22
Port Dover.....	35.50	33.50	92,904.91	344.2	1,328.13	1,879.44	4,255.69
Port Rowan.....	52.50	50.50	21,820.11	62.7	241.93	439.35	977.76
Port Stanley.....	36.50	34.50	117,646.74	421.5	1,626.40	2,794.05	5,417.08
Preston.....	24.50	22.50	547,082.54	2,714.2	10,472.98	12,472.21	25,068.64
Princeton.....	42.50	40.50	34,047.65	108.2	417.50	965.53	1,563.99
Queenston.....	26.50	24.50	19,566.78	98.6	380.46	654.92	845.40
Richmond Hill....	32.50	30.50	87,392.01	357.2	1,378.29	2,545.93	4,003.81
Ridgetown.....	35.50	33.50	122,054.69	460.7	1,777.65	3,434.10	5,592.45
Riverside.....	31.50	29.50	243,543.59	914.1	3,527.14	5,164.16	11,164.24
Rockwood.....	37.50	35.50	30,332.77	101.9	393.19	626.95	1,388.85
Rodney.....	47.00	45.00	45,887.96	131.3	506.63	1,712.27	2,101.17
St. Catharines....	20.50	18.50	1,936,000.51	11,248.3	43,402.57	37,236.65	87,407.14

SYSTEM

N—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
326.88	121.42	494.33	382.54	89.95	4,953.77	5,305.59	351.82
191.93	67.04	273.65	218.28	49.79	2,551.82	2,949.80	397.98
632.71	242.29	985.72	792.43	179.37	9,738.43	10,296.32	557.89
207.43	69.00	210.92	212.53	38.38	2,471.02	2,788.58	317.56
5,220.24	2,450.00	16,846.37	8,679.60	3,065.46	107,093.17	108,780.33	1,687.16
1,850.90	669.78	3,089.77	2,256.94	562.23	27,512.57	30,314.16	2,801.59
662.86	250.54	917.80	752.71	167.01	8,705.38	9,309.02	603.64
2,889.06	1,269.06	7,021.30	4,230.75	1,277.63	50,171.95	49,691.53	(480.42)
926.21	352.55	1,482.00	1,114.23	269.67	13,425.17	14,115.65	690.48
213.35	56.93	128.70	190.07	23.42	2,274.37	2,457.75	183.38
249.49	89.74	349.38	283.32	63.57	3,764.26	4,193.69	429.43
157.49	50.68	136.83	153.96	24.90	1,774.38	2,153.10	378.72
1,022.72	374.87	1,478.75	1,174.93	269.08	13,110.45	14,528.16	1,417.71
10,927.80	4,571.04	21,181.22	14,316.00	3,854.28	165,612.18	175,772.39	10,160.21
7,204.56	3,711.25	29,115.12	13,616.80	5,297.94	171,584.27	165,677.05	(5,907.22)
594.73	248.84	1,722.82	923.97	313.49	12,680.50	12,629.93	(50.57)
730.51	278.08	1,120.93	858.97	203.97	10,257.67	11,018.87	761.20
590.93	208.36	636.67	618.61	115.85	7,230.75	8,038.33	807.58
294.68	94.54	310.05	302.61	56.42	3,563.70	3,998.30	434.60
1,041.64	368.72	1,308.45	1,140.92	238.09	13,624.47	14,881.08	1,256.61
1,894.13	804.06	4,024.80	2,569.18	732.37	30,446.63	30,940.54	493.91
749.45	191.46	444.93	663.89	80.96	6,770.13	7,804.15	1,034.02
2,483.80	905.25	3,050.79	2,720.09	555.14	32,658.29	35,330.45	2,672.16
269.92	79.66	230.75	260.54	41.99	2,888.11	3,333.52	445.41
2,191.38	873.49	3,465.81	2,647.65	630.66	34,322.43	37,348.06	3,025.63
2,658.81	1,114.15	5,094.69	3,386.71	927.06	39,053.80	40,749.84	1,696.04
1,156.48	462.65	2,024.43	1,439.28	368.39	17,514.86	19,300.22	1,785.36
1,043.10	408.84	2,113.14	1,361.32	384.52	16,220.96	17,510.08	1,289.12
857.54	294.60	1,118.65	946.51	203.56	10,477.00	12,023.05	1,546.05
222.58	65.33	203.77	219.01	37.08	2,332.65	3,258.85	926.20
1,114.23	384.00	1,369.88	1,206.38	249.27	13,662.75	15,053.33	1,390.58
3,977.07	1,738.68	8,821.15	5,510.91	1,605.14	66,456.50	65,105.94	(1,350.56)
343.70	109.18	351.65	349.57	63.99	4,037.13	4,537.03	499.90
129.59	53.68	320.45	185.18	58.31	2,511.37	2,556.56	45.19
679.76	275.07	1,160.90	887.34	211.24	10,719.86	11,419.21	699.35
1,094.09	406.07	1,497.28	1,243.03	272.45	14,772.22	16,117.37	1,345.15
2,163.02	839.05	2,970.83	2,481.99	540.59	27,769.84	28,346.39	576.55
296.38	100.89	331.18	309.88	60.26	3,387.06	3,767.00	379.94
482.97	143.59	426.72	471.18	77.65	5,766.88	6,106.05	339.17
11,630.26	5,371.23	36,556.97	19,047.06	6,652.11	233,999.77	224,736.00	(9,263.77)

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount received by the Commission
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Share of operating		
	To July 31 1937	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
St. Clair Beach....	37.50	35.50	22,142.34	74.0	285.53	655.89	1,014.85
St. George.....	37.50	35.50	42,625.30	161.0	621.23	1,168.59	1,952.36
St. Jacobs.....	31.50	29.50	61,812.87	260.5	1,005.15	1,488.65	2,831.69
St. Marys.....	33.50	31.50	294,185.91	1,252.5	4,832.88	9,175.74	13,476.86
St. Thomas.....	25.50	23.50	1,444,702.52	7,193.0	27,754.83	32,005.84	66,215.73
Sarnia.....	30.50	28.50	1,860,416.28	7,499.0	28,935.56	42,899.03	85,264.04
Scarboro twp.....	29.50	27.50	748,203.75	3,088.0	11,915.32	12,925.04	34,283.75
Seaforth.....	32.50	30.50	122,985.44	480.6	1,854.44	3,589.11	5,632.04
Simcoe.....	27.50	25.50	398,297.12	1,841.9	7,107.14	8,088.26	18,247.55
Springfield.....	45.50	43.50	22,514.96	60.0	231.52	798.20	1,032.12
Stamford twp.....	19.50	17.50	318,670.67	2,063.9	7,963.74	6,611.13	14,607.94
Stouffville.....	42.50	40.50	68,217.40	218.5	843.10	2,234.81	3,122.13
Stratford.....	27.50	25.50	1,427,176.31	6,617.1	25,532.67	32,185.77	65,393.45
Strathroy.....	31.50	29.50	259,743.44	1,079.8	4,166.50	5,135.91	11,896.12
Streetsville.....	37.50	35.50	26,289.32	105.6	407.47	889.82	1,204.46
Sutton.....	49.50	47.50	74,575.39	213.7	824.58	2,228.04	3,423.23
Swansea.....	.....	29.00	35,439.76	170.4	657.50	1,501.66	1,618.59
Tavistock.....	33.50	31.50	132,561.80	524.8	2,024.99	3,353.40	6,140.37
Tecumseh.....	34.50	32.50	88,782.18	311.1	1,200.41	2,613.21	4,069.47
Thamesford.....	37.50	35.50	40,638.27	157.0	605.80	1,123.71	1,861.83
Thamesville.....	37.50	35.50	49,803.59	195.1	752.81	1,519.37	2,282.01
Theford.....	64.50	62.50	33,394.04	71.8	277.05	1,129.79	1,538.36
Thorndale.....	62.50	60.50	16,460.63	39.6	152.80	561.51	753.92
Thorold.....	22.50	20.50	372,001.16	2,063.5	7,962.20	7,441.62	16,865.16
Tilbury.....	35.50	33.50	143,122.28	549.0	2,118.37	4,006.28	6,597.37
Tillsonburg.....	30.50	28.50	243,745.09	1,026.9	3,962.39	5,344.80	11,172.64
Toronto.....	23.60	21.60	61,680,304.21	297,535.7	1,148,068.07	1,001,723.55	2,826,237.09
Toronto twp.....	29.50	27.50	456,427.84	1,968.8	7,596.80	12,351.82	20,912.18
Trafalgar twp. (No. 1 area).....	.....	26.50	79,416.88	350.7	1,353.21	1,749.24	3,638.96
Trafalgar twp. (No. 2 area).....	.....	27.50	24,798.31	105.5	407.08	639.44	1,136.27
Wallaceburg.....	33.50	31.50	517,888.31	1,957.5	7,553.19	11,773.05	23,736.47
Wardsville.....	59.50	57.50	12,983.33	33.6	129.65	420.63	594.69
Waterdown.....	29.50	27.50	46,326.55	213.8	824.97	1,114.60	2,122.58
Waterford.....	29.50	27.50	87,913.67	386.3	1,490.57	1,989.49	4,027.53
Waterloo.....	24.50	22.50	687,975.70	3,342.7	12,898.10	13,514.47	31,519.81
Watford.....	47.50	45.50	85,006.49	242.3	934.94	2,566.97	3,900.28
Welland.....	21.50	19.50	864,180.17	5,240.1	20,219.39	15,203.51	39,689.67
Wellesley.....	47.50	45.50	33,333.20	91.4	352.68	818.43	1,526.71
West Lorne.....	38.50	36.50	33,432.42	118.1	455.70	1,330.79	1,531.78
Weston.....	24.50	22.50	702,156.59	3,530.9	13,624.29	13,662.40	32,145.04

SYSTEM

N—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
211.50	75.09	240.51	226.47	43.76	2,666.08	2,712.56	46.48
388.59	135.27	523.25	433.93	95.21	5,128.01	5,954.36	826.35
520.23	204.70	846.62	626.83	154.06	7,369.81	8,053.90	684.09
2,384.07	986.80	4,070.62	2,982.11	740.71	37,168.37	41,299.93	4,131.56
10,420.73	4,576.88	23,377.25	14,554.15	4,253.85	174,651.56	179,908.52	5,256.96
15,820.78	6,199.54	24,371.76	18,906.86	4,434.82	217,962.75	224,891.83	6,929.08
5,768.67	2,295.95	10,036.00	7,595.40	1,826.21	82,993.92	89,479.65	6,485.73
1,084.33	389.27	1,561.95	1,250.26	284.22	15,077.18	15,350.07	272.89
3,106.03	1,240.92	5,986.18	4,023.99	1,089.28	46,710.79	49,661.64	2,950.85
243.82	68.43	195.00	231.54	35.48	2,765.15	2,698.31	(66.84)
1,700.89	863.92	6,707.68	3,165.93	1,220.57	40,400.66	39,156.77	(1,243.89)
636.33	208.47	710.12	697.59	129.22	8,323.33	9,168.32	844.99
10,948.01	4,664.31	21,505.58	14,419.20	3,913.27	170,735.72	178,445.77	7,710.05
2,205.22	790.52	3,509.34	2,634.74	638.58	29,699.77	33,439.00	3,739.23
228.98	88.83	343.20	267.11	62.45	3,367.42	3,899.52	532.10
743.47	227.41	694.53	767.30	126.38	8,782.18	10,426.82	1,644.64
228.79	102.40	553.80	356.28	100.77	4,918.25	4,942.14	23.89
1,180.87	448.46	1,705.60	1,363.03	310.36	15,906.36	17,285.15	1,378.79
824.59	302.15	1,011.07	906.79	183.98	10,743.71	10,525.93	(217.78)
363.94	129.89	510.25	413.49	92.85	4,916.06	5,802.01	885.95
435.05	166.18	634.07	506.55	115.38	6,180.66	7,220.84	1,040.18
388.05	107.42	233.35	347.10	42.46	3,978.66	4,586.81	608.15
184.96	50.16	128.70	169.69	23.42	1,978.32	2,454.27	475.95
2,405.65	1,081.93	6,706.38	3,685.17	1,220.33	44,927.78	45,501.84	574.06
1,281.85	477.16	1,784.26	1,465.87	324.67	17,406.49	19,228.09	1,821.60
2,055.09	767.71	3,337.42	2,473.31	607.30	28,506.06	30,801.61	2,295.55
399,503.80	178,762.18	966,991.12	622,096.12	175,958.98	6,967,422.95	6,877,952.34	(89,470.61)
3,752.23	1,479.81	6,398.59	4,624.98	1,164.33	55,952.08	56,951.26	999.18
652.15	271.17	1,139.77	804.04	207.40	9,401.14	8,621.31	(779.83)
209.80	86.12	342.88	251.43	62.39	3,010.63	2,904.00	(106.63)
4,640.37	1,693.99	6,361.87	5,275.68	1,157.64	59,876.98	64,551.38	4,674.40
141.00	42.31	109.20	133.63	19.87	1,551.24	1,980.49	429.25
364.62	145.77	694.85	468.12	126.44	5,609.07	6,193.37	584.30
717.12	286.67	1,255.48	890.06	228.45	10,428.47	11,202.11	773.64
5,097.40	2,188.50	10,863.77	6,935.68	1,976.83	81,040.90	80,135.62	(905.28)
886.46	277.82	787.47	874.34	143.29	10,084.99	11,381.46	1,296.47
5,159.28	2,523.50	17,030.32	8,636.39	3,098.93	105,363.13	109,947.61	4,584.48
357.22	102.68	297.05	342.57	54.05	3,743.29	4,290.43	547.14
316.78	107.72	383.82	341.23	69.84	4,397.98	4,485.82	87.84
4,931.43	2,106.62	11,475.42	7,061.79	2,088.13	82,918.86	84,722.40	1,803.54

NIAGARA

**Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount received by the Commission
or charged to each Municipality in respect of power**

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To July 31 1937	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
Wheatley.....	50.50	48.50	53,135.14	135.1	521.30	1,077.48	2,434.81
Windsor.....	28.00	26.00	8,018,270.93	35,824.5	138,232.05	145,255.44	372,262.95
Woodbridge.....	32.50	30.50	96,191.57	397.5	1,533.79	1,950.19	4,406.27
Woodstock.....	25.50	23.50	1,237,281.07	5,966.5	23,022.29	25,752.92	56,701.48
Wyoming.....	49.50	47.50	27,181.37	73.3	282.83	856.31	1,245.37
York East twp....	29.50	27.50	1,200,892.09	5,761.2	22,230.11	48,790.21	55,025.49
York North twp. .	29.50	27.50	785,347.15	3,387.8	13,072.13	20,559.59	35,889.50
Zurich.....	59.50	57.50	33,430.17	78.0	300.97	968.31	1,551.38
Mimico Asylum.....			16,848.44	77.5	299.04	310.21	793.20
Ontario Reformatory.....			59,673.42	275.1	1,061.50	1,216.54	2,732.52
Prison Brick Yard.....			2,934.90	13.5	52.09	35.76	147.22
Toronto Transportation Com....			66,335.44	329.8	1,272.56	1,295.06	3,039.49
Sandwich, Windsor & Amherstburg Rly Co.....			636,058.52	2,783.1	10,738.84	11,409.40	29,354.59
Totals—Municipalities.....			141,590,005.39	685,199.1	2,643,901.96	2,631,865.14	6,489,836.77
RURAL POWER DISTRICTS							
Acton R.P.D.—Erin, Esquesing and Nassagaweya twps.....			3,838.32	15.3	59.04	81.13	175.77
Ailsa Craig R.P.D.—Lobo, McGillivray and Williams E. twps.			2,413.00	7.3	28.17	68.27	109.99
Alvinston R.P.D.—Brooke twp..			2,933.63	5.5	21.22	86.16	135.01
Amherstburg R.P.D.—Anderdon, Colchester N., Colchester S. and Malden twps.....			188,342.59	701.9	2,708.34	4,077.89	8,636.03
Aylmer R.P.D.—Bayham, Dereham, Dorchester N., Dorchester S., Malahide and Yarmouth twps.....			105,167.20	416.2	1,605.95	2,424.93	4,817.62
Ayr R.P.D.—Blenheim, Dumfries N. and Dumfries S. twps.....			11,991.39	50.2	193.70	347.19	539.44
Baden R.P.D.—Blandford, Blenheim, Easthope N., Easthope S., Waterloo, Wellesley, Wilmot and Zorra E., twps.....			119,189.95	489.7	1,889.56	2,281.54	5,460.32
Beamsville R.P.D.—Caistor, Clinton, Gainsborough, Grimsby N., Grimsby S., Louth, Pelham and Wainfleet twps....			313,569.43	1,370.5	5,288.19	7,492.79	13,999.19
Belle River R.P.D.—Maidstone and Rochester twps.....			67,711.28	252.2	973.14	1,584.60	3,099.70
Blenheim R.P.D.—Raleigh and Harwich twps.....			43,808.23	165.3	637.82	1,056.50	2,012.49

SYSTEM

N—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
576.83	163.82	439.07	547.34	79.90	5,680.75	6,749.33	1,068.58
63,382.78	26,419.88	116,429.62	82,257.21	21,186.17	923,053.76	986,209.88	63,156.12
813.18	312.02	1,291.87	976.13	235.08	11,048.37	12,704.65	1,656.28
9,249.11	3,998.21	19,391.12	12,481.09	3,528.52	147,067.70	149,116.43	2,048.73
289.62	87.79	238.23	279.56	43.35	3,236.36	3,590.53	354.17
7,834.21	3,485.31	18,723.90	12,114.89	3,407.10	164,797.02	167,115.88	2,318.86
5,814.71	2,427.38	11,010.35	7,936.56	2,003.50	94,706.72	98,178.16	3,471.44
386.05	103.20	253.50	349.51	46.13	3,866.79	4,596.85	730.06
136.96	55.52	251.87	175.16	45.83	1,976.13	2,362.70	386.57
466.92	190.98	894.08	602.65	162.69	7,002.50	7,427.23	424.73
26.82	10.16	43.87	32.60	7.98	340.54	411.24	70.70
472.76	199.85	1,071.85	668.12	195.04	7,824.65	9,657.46	1,832.81
5,066.42	2,084.46	9,045.07	6,490.28	1,645.89	72,543.17	85,628.28	13,085.11
991,192.28	429,304.53	2,226,003.01	1,428,365.95	403,103.31	16,437,366.33	16,611,805.95	314,095.71 (139,656.09)
33.77	12.64	49.72	38.99	9.05	442.01	442.01	see page 219
24.59	7.57	23.72	24.61	4.32	282.60	282.60	"
35.35	9.04	17.87	30.54	3.25	331.94	331.94	"
1,681.70	627.26	2,281.18	1,920.42	415.10	21,517.72	21,517.72	"
926.13	341.56	1,352.65	1,068.98	246.13	12,291.69	12,291.69	"
98.44	38.25	163.14	119.34	29.69	1,469.81	1,469.81	"
1,022.90	390.21	1,591.52	1,209.91	289.60	13,556.36	13,556.36	"
2,517.19	925.68	4,454.13	3,091.13	810.50	36,957.80	36,957.80	"
603.16	226.24	819.66	689.27	149.15	7,846.62	7,846.62	"
394.51	146.15	537.22	447.37	97.76	5,134.30	5,134.30	"

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Bond Lake R.P.D.—King, Markham, Scarboro, Tecumseth, Vaughan, Whitchurch and York N. twps.....	316,796.74	1,208.8	4,664.27	9,119.43	14,525.84
Bothwell R.P.D.—Aldborough, Ekfrid, Mosa, Orford and Zone twps....	72,245.28	239.0	922.20	1,621.20	3,309.18
Brampton R.P.D.—Chinguacousy and Toronto twps.....	41,211.44	185.6	716.15	1,554.10	1,888.38
Brant R.P.D.—Blenheim, Brantford, Burford, Dumfries S., Oakland, Onondaga and Tuscarora twps.....	136,053.84	646.6	2,494.96	4,626.51	6,217.82
Brigden R.P.D.—Moore and Sombra twps.....	20,289.03	45.1	174.02	567.66	931.67
Burford R.P.D.—Brantford, Burford, Oakland, Townsend and Windham twps.....	46,246.12	189.3	730.43	959.42	2,119.78
Caledonia R.P.D.—Ancaster, Barton, Binbrook, Caistor, Glanford, Grimsby S., Oneida, Onondaga and Seneca twps.	92,506.00	395.7	1,526.84	1,879.40	4,152.21
Chatham R.P.D.—Chatham, Dover, Harwich and Raleigh twps.....	124,457.50	556.1	2,145.76	3,060.16	5,703.48
Chippawa R.P.D.—Bertie, Crowland and Willoughby twps.....	23,550.38	135.0	520.91	459.81	1,079.40
Clinton R.P.D.—Goderich, Hay, Hullett, Stanley and Tuckersmith twps...	42,409.18	142.6	550.23	1,688.48	1,939.13
Delaware R.P.D.—Carodoc, Delaware, Ekfrid, Lobo, London, Southwold and Westminster twps.....	94,948.28	388.8	1,500.21	1,977.47	4,184.36
Dorchester R.P.D.—Dorchester N., Dorchester S., London, Nissouri E., Nissouri W., Oxford N., Westminster and Yarmouth twps.....	100,715.31	412.1	1,590.12	2,561.67	4,614.43
Dresden R.P.D.—Camden, Chatham and Dawn twps.....	17,319.10	59.0	227.66	386.39	793.79
Drumbo R.P.D.—Blandford, Blenheim and Burford twps.....	45,489.47	151.5	584.58	1,067.61	2,089.47
Dundas R.P.D.—Ancaster, Barton, Beverly, Flamboro E., Flamboro W., Glanford and Nelson twps.....	167,355.26	799.8	3,086.09	3,467.70	7,631.06
Dunnville R.P.D.—Canborough, Dunn and Moulton twps.....	11,104.44	50.9	196.41	446.11	508.82
Dutton R.P.D.—Aldborough and Dunwich twps.....	41,829.64	154.2	594.99	1,306.72	1,916.61
Elmira R.P.D.—Peel, Pilkington and Woolwich twps.....	24,896.58	96.5	372.36	433.46	1,140.84

SYSTEM

N—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,620.37	994.60	3,928.60	3,227.49	714.87	38,365.73	38,365.73	see page 219
701.30	239.40	776.74	738.69	141.34	8,167.37	8,167.37	"
327.57	129.51	603.20	416.90	109.76	5,526.05	5,526.05	"
1,028.80	437.89	2,101.46	1,369.39	382.39	17,894.44	17,894.44	"
232.45	66.46	146.57	210.06	26.68	2,302.21	2,302.21	"
399.31	155.87	615.23	469.78	111.95	5,337.87	5,337.87	"
748.14	295.90	1,286.02	917.87	234.01	10,572.37	10,572.37	"
977.59	406.89	1,807.32	1,259.59	328.87	15,031.92	15,031.92	"
151.84	69.55	438.75	235.57	79.84	2,875.99	2,875.99	"
409.56	138.15	463.45	432.62	84.33	5,537.29	5,537.29	"
761.56	295.68	1,263.61	925.91	229.93	10,678.87	10,678.87	"
865.95	327.44	1,339.33	1,022.65	243.71	12,077.88	12,077.88	"
165.53	56.88	191.76	177.03	34.89	1,964.15	1,964.15	"
448.33	144.16	492.38	466.37	89.59	5,203.31	5,203.31	"
1,263.24	541.85	2,599.35	1,680.04	473.00	19,796.33	19,796.33	"
90.30	37.86	165.43	112.25	30.10	1,527.08	1,527.08	"
386.23	134.68	501.15	426.35	91.19	5,175.54	5,175.54	"
222.80	82.32	313.62	253.33	57.07	2,761.66	2,761.66	"

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Elora R.P.D.—Garafraxa W., Nichol, Peel and Pilkington twps.	35,200.94	130.4	503.16	750.30	1,612.00
Essex R.P.D.—Colchester N., Gosfield N., Gosfield S., Maidstone, Mersea, Rochester and Sandwich S. twps.	67,077.93	254.8	983.17	1,391.57	3,074.87
Exeter R.P.D.—Biddulph, Bosanquet, Fullerton, Hay, Hibbert, Stephen, Tuckersmith and Usborne twps.	106,991.82	347.8	1,342.02	2,433.42	4,952.03
Forest R.P.D.—Adelaide, Bosanquet, Plympton, Warwick and Williams W. twps.	20,020.95	56.4	217.62	497.73	923.75
Galt R.P.D.—Beverly, Dumfries N., Dumfries S., and Puslinch twps.	48,756.27	233.1	899.44	2,621.82	2,234.04
Georgetown R.P.D.—Chinguacousy, Erin and Esquesing twps.	47,911.90	182.6	704.58	974.07	2,194.46
Goderich R.P.D.—Ashfield, Colborne, Goderich and Wawonosh W. twps.	44,675.85	117.6	453.77	1,203.73	2,036.26
Grantham R.P.D.—Grantham and Niagara twps.	129,389.26	615.8	2,376.12	4,107.48	5,874.47
Guelph R.P.D.—Eramosa, Erin, Flamboro E., Garafraxa W., Guelph, Nassagaweya, Nichol and Puslinch twps.	121,577.86	526.6	2,031.93	2,626.36	5,566.92
Haldimand R.P.D.—Cayuga N., Cayuga S., Oneida, Rainham, Seneca, Townsend and Walpole twps.	84,762.70	282.2	1,088.89	1,830.53	3,883.80
Harriston R.P.D.—Howick and Minto twps.	6,193.14	19.6	75.63	161.50	284.12
Harrow R.P.D.—Colchester N., Colchester S., Gosfield S. and Malden twps.	155,536.51	533.9	2,060.10	3,334.88	7,128.82
Ingersoll R.P.D.—Dereham, Dorchester N., Downie, Nissouri E., Oxford N., Oxford W., Zorra E. and Zorra W. twps.	131,054.89	517.0	1,994.89	3,155.88	6,004.51
Jordan R.P.D.—Grantham, Louth, Pelham and Thorold twps.	80,651.64	388.3	1,498.30	1,634.53	3,603.59
Keswick R.P.D.—Georgina, Gwillimbury E. and Gwillimbury N. twps.	172,969.12	549.6	2,120.68	5,021.33	7,884.26
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.	216,322.21	767.4	2,961.08	4,358.16	9,915.88
Listowel R.P.D.—Elma, Grey, Maryborough, Mornington, Peel, Wallace and Wellesley twps.	61,711.92	241.3	931.08	1,641.71	2,832.91
London R.P.D.—Delaware, Lobo, London, Nissouri W., and Westminster twps.	444,947.00	1,956.0	7,547.40	10,407.13	20,391.17

SYSTEM

N—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
324.99	115.15	423.80	358.53	77.11	4,010.82	4,010.82	see page 219
590.79	224.25	828.10	683.31	150.69	7,625.37	7,625.37	"
1,077.32	342.32	1,130.36	1,106.34	205.69	12,178.12	12,178.12	"
211.55	66.03	183.30	207.17	33.36	2,273.79	2,273.79	"
368.13	156.32	757.58	491.94	137.85	7,391.42	7,391.42	"
434.67	152.99	593.45	487.59	107.99	5,433.82	5,433.82	"
480.97	153.40	382.20	457.32	69.55	5,098.10	5,098.10	"
996.22	395.27	2,001.34	1,293.31	364.17	16,680.04	16,680.04	"
1,004.00	406.45	1,711.45	1,230.96	311.43	14,266.64	14,266.64	"
835.85	261.99	917.15	866.81	166.89	9,518.13	9,518.13	"
62.05	20.15	63.70	63.50	11.59	719.06	719.06	"
1,462.61	517.90	1,735.17	1,589.55	315.74	17,513.29	17,513.29	"
1,158.41	429.16	1,680.26	1,332.52	305.75	15,449.88	15,449.88	"
593.57	247.35	1,261.98	792.36	229.64	9,402.04	9,402.04	"
1,610.76	532.45	1,786.19	1,761.82	325.03	20,392.46	20,392.46	"
1,993.95	718.94	2,494.05	2,208.65	453.83	24,196.88	24,196.88	"
546.12	204.32	784.22	628.92	142.70	7,426.58	7,426.58	"
3,615.22	1,473.70	6,357.00	4,506.34	1,156.75	53,141.21	53,141.21	see page 221

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Lucan R.P.D.—Biddulph, Blanshard, London, McGillivray and Stephen twps.....	22,739.81	87.3	336.85	614.50	1,005.14
Lynden R.P.D.—Ancaster, Beverly, Brantford and Dumfries S. twps.....	51,984.74	204.4	788.70	1,103.73	2,381.52
Markham R.P.D.—Markham, Pickering, Scarboro, Uxbridge and Whitchurch twps.....	148,817.23	568.8	2,194.77	4,586.76	6,819.34
Merlin R.P.D.—Raleigh, Romney and Tilbury E. twps.....	72,429.02	227.4	877.44	1,648.56	3,330.38
Milton R.P.D.—Esquesing, Nassagaweya, Nelson and Trafalgar twps....	45,317.31	183.0	706.12	1,664.12	2,079.45
Milverton R.P.D.—Ellice, Elma, Mornington and Wellesley twps.....	30,003.36	114.6	442.19	701.50	1,374.84
Mitchell R.P.D.—Downie, Ellice, Elma, Fullarton, Hibbert, Logan and McKillop twps.....	60,054.33	232.1	895.58	1,505.30	2,751.98
Newmarket R.P.D.—Georgina, Gwillimbury E., King, Scott, Uxbridge and Whitchurch twps.....	80,007.90	304.3	1,174.17	2,073.39	3,674.93
Niagara R.P.D.—Niagara and Stamford twps.....	103,543.95	594.1	2,292.39	2,927.40	4,583.14
Norwich R.P.D.—Burford, Dereham, Middleton, Norwich N., Norwich S., Oxford E. and Windham twps.....	95,842.97	391.0	1,508.71	2,189.29	4,393.55
Oil Springs R.P.D.—Brooke, Dawn, Enniskillen and Euphemia twps.....	14,615.25	47.0	181.36	435.60	669.74
Palmerston R.P.D.—Arthur, Maryborough, Minto, Peel and Wallace twps.....	17,780.10	64.1	247.34	533.58	815.93
Petrolia R.P.D.—Enniskillen, Moore, Plympton and Sarnia twps.....	10,574.76	36.5	140.84	257.94	484.62
Preston R.P.D.—Dumfries N., Guelph, Puslinch, Waterloo and Woolwich twps.....	248,912.17	1,097.9	4,236.35	5,090.44	11,404.01
Ridgetown R.P.D.—Aldborough, Harwich, Howard and Orford twps., and Rondeau Park.....	104,072.97	339.3	1,309.22	2,711.03	4,729.01
St. Jacobs R.P.D.—Peel, Pilkington, Waterloo, Wellesley and Woolwich twps.....	61,688.29	256.4	989.34	1,225.19	2,825.94
St. Marys R.P.D.—Blanshard, Downie, Fullarton, Nissouri E., Nissouri W. and Osborne twps.....	82,464.58	301.3	1,162.58	2,193.75	3,771.42
St. Thomas R.P.D.—Dunwich, Southwold, Westminster and Yarmouth twps.....	178,038.11	799.9	3,086.48	4,282.96	8,159.24

SYSTEM

N—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of powers sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund	\$ c.	\$ c.	\$ c.	\$ c.
192.48	70.48	283.73	223.00	51.63	2,674.55	2,674.55	see page 221
464.00	162.37	664.30	528.57	120.88	5,972.31	5,972.31	"
1,227.85	461.52	1,848.60	1,515.06	336.38	18,317.52	18,317.52	"
726.79	241.81	739.05	744.65	134.48	8,174.20	8,174.20	"
394.26	136.64	594.75	461.09	108.22	5,928.21	5,928.21	"
268.99	101.67	372.45	305.46	67.77	3,499.33	3,499.33	"
534.17	205.13	754.33	611.17	137.26	7,120.40	7,120.40	"
665.62	253.31	988.97	816.69	179.96	9,467.12	9,467.12	"
613.52	282.95	1,930.84	998.32	351.35	13,277.21	13,277.21	"
828.18	315.26	1,270.75	973.82	231.24	11,248.32	11,248.32	"
143.59	50.89	152.74	149.63	27.80	1,755.75	1,755.75	"
165.85	58.72	208.32	181.65	37.91	2,173.48	2,173.48	"
99.82	35.50	118.62	108.04	21.59	1,223.79	1,223.79	"
2,021.14	831.45	3,568.17	2,519.85	649.30	29,022.11	29,022.11	"
1,005.74	338.42	1,102.73	1,055.84	200.66	12,051.33	12,051.33	"
524.76	203.43	833.30	625.90	151.64	7,076.22	7,076.22	"
747.70	291.50	979.23	839.16	178.19	9,807.15	9,807.15	"
1,419.58	588.28	2,599.67	1,801.52	473.05	21,464.68	21,464.68	"

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Saltfleet R.P.D.—Barton, Binbrook, Grimsby N., and Saltfleet twps.	284,924.06	1,201.6	4,636.48	6,283.35	13,053.84
Sandwich R.P.D.—Anderdon, Colchester N., Maidstone, Sandwich E., Sandwich S. and Sandwich W. twps.	262,994.25	1,076.3	4,152.99	5,256.66	12,053.46
Sarnia R.P.D.—Moore, Plympton and Sarnia twps.	188,865.49	686.1	2,647.37	4,915.81	8,652.66
Scarboro R.P.D.—Pickering, Scarboro and York N. twps.	131,831.84	504.5	1,946.66	2,381.98	6,039.93
Seaforth R.P.D.—Hibbert, Hullett, McKillop and Tuckersmith twps.	18,983.49	71.2	274.73	492.79	869.35
Simcoe R.P.D.—Charlotteville, Townsend, Walpole, Windham and Woodhouse twps.	76,548.29	343.7	1,326.19	2,345.46	3,506.91
Stamford R.P.D.—Stamford and Thorold twps.	37,137.58	186.7	720.40	880.52	1,618.65
Stratford R.P.D.—Downie, Easthope N., Easthope S. and Ellice twps.	47,572.45	218.9	844.65	1,199.12	2,179.75
Strathroy R.P.D.—Adelaide, Caradoc, Ekfrid, Lobo, Metcalfe and Williams E. twps.	36,792.84	137.5	530.56	1,339.20	1,680.29
Streetsville R.P.D.—Chinguacousy, Esquering, Toronto and Trafalgar twps.	91,639.19	368.1	1,420.35	2,502.29	4,198.46
Tavistock R.P.D.—Easthope N., Easthope S., Ellice and Zorra E. twps.	66,041.08	261.7	1,009.79	1,523.75	3,058.59
Thamesville R.P.D.—Camden, Chatham, Dawn, Euphemia, Harwich, Howard, Orford and Zone twps.	36,759.18	144.0	555.64	878.47	1,684.33
Tilbury R.P.D.—Dover, Mersea, Rochester, Romney, Tilbury E., Tilbury N. and Tilbury W. twps.	73,388.86	280.7	1,083.11	1,797.33	3,382.74
Tillsonburg R.P.D.—Bayham, Dereham, Dorchester S., Houghton, Malahide, Middleton, Norwich N., Norwich S. and Walsingham N. twps.	119,556.41	473.8	1,828.20	2,747.01	5,484.71
Wallaceburg R.P.D.—Chatham, Dover and Sombra twps.	74,540.82	277.6	1,071.14	1,914.34	3,416.34
Walsingham R.P.D.—Charlotteville, Houghton, Long Point Park Commission, Middleton, Walsingham N., Walsingham S. and Windham twps.	124,112.07	408.4	1,575.85	2,276.90	5,544.05
Walton R.P.D.—Grey, Hullett, McKillop, Morris, Wawanosh E., and Wawanosh W. twps.	42,376.06	128.1	494.29	1,027.48	1,939.35

SYSTEM

N—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,422.20	944.44	3,905.21	2,889.57	710.62	33,424.47	33,424.47	see page 221
2,189.10	884.97	3,497.97	2,671.26	636.52	30,069.89	30,069.89	"
1,726.53	647.88	2,229.83	1,925.73	405.75	22,340.06	22,340.06	"
1,086.24	399.34	1,639.62	1,341.84	298.36	14,537.25	14,537.25	"
172.09	61.62	231.40	193.26	42.11	2,253.13	2,253.13	"
612.98	242.01	1,117.02	774.33	203.26	9,721.64	9,721.64	"
248.06	109.72	606.78	354.75	110.41	4,428.47	4,428.47	"
367.57	156.10	711.42	480.80	129.45	5,809.96	5,809.96	"
335.03	118.86	446.88	373.57	81.32	4,743.07	4,743.07	"
798.17	309.62	1,196.32	931.10	217.69	11,138.62	11,138.62	"
587.80	223.38	850.53	678.91	154.77	7,777.98	7,777.98	"
321.11	122.65	468.00	373.88	85.16	4,318.92	4,318.92	"
658.52	244.67	912.27	751.68	166.00	8,664.32	8,664.32	"
1,056.25	390.01	1,539.85	1,217.00	280.20	13,982.83	13,982.83	"
674.51	248.41	902.20	759.70	164.17	8,822.47	8,822.47	"
1,179.56	380.51	1,327.30	1,236.82	241.52	13,279.47	13,279.47	"
432.59	135.68	416.32	434.03	75.76	4,803.98	4,803.98	"

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Waterdown R.P.D.—Flamboro E., Flamboro W. and Nelson twps..	278,293.07	1,228.0	4,738.35	6,165.32	12,750.37
Waterford R.P.D.—Townsend and Windham twps.....	63,266.89	278.0	1,072.69	1,406.17	2,898.39
Watford R.P.D.—Adelaide, Metcalfe and Warwick twps.....	13,320.31	39.1	150.87	348.08	611.08
Welland R.P.D.—Bertie, Crowland, Humberstone, Moulton, Pelham, Thorold, Wainfleet and Willoughby twps.....	273,164.33	1,426.0	5,502.36	7,780.73	12,491.44
Woodbridge R.P.D.—Albion, Chinguacousy, Etobicoke, King, Toronto, Toronto Gore, Vaughan and York N. twps.....	178,767.69	718.1	2,770.86	3,471.57	8,139.28
Woodstock R.P.D.—Blandford, Blenheim, Burford, Dereham, Oxford E., Oxford N., Oxford W., Zorra E. and Zorra W. twps.	161,125.00	705.2	2,721.08	3,918.04	7,300.93
Totals—Rural power districts . . .	8,365,028.62	34,063.8	131,438.22	203,433.84	381,938.77
Totals—Municipalities	141,590,005.39	685,199.1	2,643,901.96	2,631,865.14	6,489,836.77
Totals—Rural power districts . . .	8,365,028.62	34,063.8	131,438.22	203,433.84	381,938.77
Totals—Companies	48,412,253.82	269,993.5	1,041,794.06	1,033,142.10	2,215,020.62
Totals—Local distribution systems	1,395,969.69	4,988.4	19,248.18	85,803.16	64,739.42
	199,763,257.52				
Non-operating capital	665,495.76				
Grand totals	200,428,753.28	994,244.8	3,836,382.42	3,954,244.24	9,151,535.58

SYSTEM

N—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$
2,277.60	896.92	3,991.00	2,817.30	726.22	32,910.64	32,910.64	see page 221
516.08	206.29	903.50	640.53	164.41	7,479.24	7,479.24	"
137.29	43.50	127.07	136.89	23.12	1,531.66	1,531.66	"
1,947.84	832.56	4,634.50	2,739.12	843.32	35,085.23	35,085.23	"
1,527.74	559.97	2,333.82	1,804.62	424.67	20,183.19	20,183.19	"
1,289.52	538.01	2,291.90	1,613.01	417.05	19,255.44	19,255.44	"
71,114.21	27,024.28	110,707.34	84,648.51	20,145.00	990,160.17	990,160.17	.....
991,192.28	429,304.53	2,226,003.01	1,428,365.95	(403,103.31)	16,437,366.33	16,611,805.95	314,095.71 (139656.09)
71,114.21	27,024.28	110,707.34	84,648.51	(20,145.00)	990,160.17	990,160.17	.....
307,188.65	142,045.03	.....	509,134.48	417,428.67	5,665,753.61	5,665,753.61	.....
11,994.35	5,487.25	689.65	12,445.88	5,819.64	206,227.53	206,227.53	.....
1,381,489.49	603,861.09	2,337,400.00	2,034,594.82	.....	23,299,507.64	23,473,947.26	314,095.71 (139656.09)

NIAGARA SYSTEM—

Statement showing the cost of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding	Cost of operation maintenance and administration
	Total capital cost	Government grant	Commission's investment		
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Acton R.P.D.....	20,395.87	10,197.93	10,197.94	442.01	416.64
Ailsa Craig R.P.D.....	10,483.77	5,241.88	5,241.89	282.60	435.30
Alvinston R.P.D.....	10,593.47	5,296.74	5,296.73	331.94	265.73
Amherstburg R.P.D.....	180,944.55	90,386.78	90,557.77	21,517.72	5,180.40
Aylmer R.P.D.....	*284,078.72	139,626.84	144,451.88	12,291.69	6,114.40
Ayr R.P.D.....	*52,263.33	25,962.83	26,300.50	1,469.81	1,395.16
Baden R.P.D.....	*226,333.99	112,445.25	113,888.74	13,556.36	9,092.05
Beamsville R.P.D.....	429,563.10	208,824.97	220,738.13	36,957.80	15,258.35
Belle River R.P.D.....	107,367.20	53,683.60	53,683.60	7,846.62	3,530.20
Blenheim R.P.D.....	*142,205.09	69,805.02	72,400.07	5,134.30	4,768.57
Bond Lake R.P.D.....	414,636.51	207,318.25	207,318.26	38,365.73	19,279.50
Bothwell R.P.D.....	*95,819.24	47,245.58	48,573.66	8,167.37	1,580.71
Brampton R.P.D.....	113,834.97	56,917.48	56,917.49	5,526.05	3,800.46
Brant R.P.D.....	*317,711.15	157,641.51	160,069.64	17,894.44	9,295.05
Brigden R.P.D.....	61,137.27	30,568.63	30,568.64	2,302.21	1,062.98
Burford R.P.D.....	129,547.64	64,773.82	64,773.82	5,337.87	2,338.19
Caledonia R.P.D.....	274,801.68	137,154.91	137,646.77	10,572.37	9,834.01
Chatham R.P.D.....	347,781.20	173,589.42	174,191.78	15,031.92	10,283.24
Chippawa R.P.D.....	72,572.60	36,283.43	36,289.17	2,875.99	2,616.68
Clinton R.P.D.....	143,205.28	70,526.28	72,679.00	5,537.29	3,738.61
Delaware R.P.D.....	*254,915.17	126,492.37	128,422.80	10,678.87	5,786.54
Dorchester R.P.D.....	*245,073.79	121,327.91	123,745.88	12,077.88	8,214.27
Dresden R.P.D.....	72,423.27	36,211.63	36,211.64	1,964.15	1,484.70
Drumbo R.P.D.....	*135,410.63	66,871.99	68,538.64	5,203.31	3,587.42
Dundas R.P.D.....	315,221.92	154,150.67	161,071.25	19,796.33	11,672.97
Dunnville R.P.D.....	64,614.55	32,307.27	32,307.28	1,527.08	1,998.34
Dutton R.P.D.....	*95,650.91	47,573.31	48,077.60	5,175.54	2,989.41
Elmira R.P.D.....	39,170.32	19,585.16	19,585.16	2,761.66	1,823.93
Elora R.P.D.....	109,297.09	54,404.49	54,892.60	4,010.82	3,051.21
Essex R.P.D.....	*173,370.40	85,768.88	87,601.52	7,625.37	4,124.82
Exeter R.P.D.....	*174,703.46	86,324.50	88,378.96	12,178.12	8,229.75
Forest R.P.D.....	*94,761.37	46,446.83	48,314.54	2,273.79	2,564.23
Galt R.P.D.....	99,623.34	49,811.67	49,811.67	7,391.42	4,421.77
Georgetown R.P.D.....	122,552.48	61,276.24	61,276.24	5,433.82	3,714.89
Goderich R.P.D.....	86,458.92	42,949.98	43,508.94	5,098.10	2,111.73
Grantham R.P.D.....	155,128.95	75,184.48	79,944.47	16,680.04	9,058.95
Guelph R.P.D.....	238,285.62	119,116.37	119,169.25	14,266.64	5,961.57
Haldimand R.P.D.....	*188,350.91	91,771.74	96,579.17	9,518.13	4,712.81
Harriston R.P.D.....	*36,734.36	17,900.26	18,834.10	719.06	1,003.84
Harrow R.P.D.....	161,009.02	80,504.51	80,504.51	17,513.29	5,231.26
Ingersoll R.P.D.....	335,694.92	167,847.46	167,847.46	15,449.88	9,427.43
Jordan R.P.D.....	119,204.50	59,398.82	59,805.68	9,402.04	4,374.29
Keswick R.P.D.....	204,770.33	99,808.48	104,961.85	20,392.46	8,641.27
Kingsville R.P.D.....	*352,186.37	173,653.80	178,532.57	24,196.88	12,552.02
Listowel R.P.D.....	129,603.50	64,801.75	64,801.75	7,426.58	5,038.84

Note—Items marked * include portions of transmission lines aggregating \$55,416.91 used for purposes of rural power districts.

RURAL POWER DISTRICTS

N.—RURAL OPERATING

District, the revenue collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

Interest	Provision for depreciation and obsolescence	Sinking fund	Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
456.94	199.63	105.11	1,620.33	1,689.31	68.98	.....
232.57	101.61	53.50	1,105.58	821.69	.....	283.89
230.17	100.56	52.94	981.34	610.10	.....	371.24
3,711.43	1,619.80	853.72	32,883.07	37,991.07	5,108.00	.....
5,796.78	2,484.33	1,333.41	28,020.61	32,827.84	4,807.23	.....
1,148.18	498.26	264.11	4,775.52	4,363.18	.....	412.34
5,062.92	2,197.53	1,164.60	31,073.46	24,237.10	.....	6,836.36
9,715.04	4,061.32	2,234.71	68,227.22	78,828.02	10,600.80	.....
2,224.27	971.77	511.64	15,084.50	18,057.10	2,972.60	.....
3,007.43	1,287.98	691.78	14,890.06	17,290.62	2,400.56	.....
9,184.45	4,012.65	2,112.66	72,954.99	76,349.72	3,394.73	.....
1,760.63	755.93	404.99	12,669.63	16,741.52	4,071.89	.....
2,189.23	956.46	503.58	12,975.78	10,180.48	.....	2,795.30
6,586.81	2,853.47	1,515.14	38,144.91	34,725.11	.....	3,419.80
1,316.98	575.38	302.94	5,560.49	4,791.00	.....	769.49
2,630.72	1,149.35	605.13	12,061.26	13,066.12	1,004.86	.....
5,685.16	2,478.91	1,307.73	29,878.18	28,158.62	.....	1,719.56
7,138.09	3,112.58	1,641.94	37,207.77	41,557.89	4,350.12	.....
1,608.74	702.79	370.05	8,174.25	8,924.51	750.26	.....
3,191.92	1,373.13	734.22	14,575.17	14,644.25	69.08	.....
5,788.55	2,509.69	1,331.52	26,095.17	29,491.62	3,396.45	.....
5,439.72	2,352.41	1,251.27	29,335.55	29,400.14	64.59	.....
1,088.42	475.52	250.36	5,263.15	4,964.18	.....	298.97
2,883.81	1,243.26	663.35	13,581.15	11,973.64	.....	1,607.51
7,027.16	2,936.93	1,616.42	43,049.81	41,521.01	.....	1,528.80
1,295.14	565.84	297.91	5,684.31	4,497.78	.....	1,186.53
2,038.01	885.35	468.79	11,557.10	10,242.93	.....	1,314.17
881.45	385.10	202.76	6,054.90	5,585.68	.....	469.22
2,378.15	1,034.32	547.03	11,021.53	10,888.90	.....	132.63
3,722.66	1,608.09	856.31	17,937.25	20,756.01	2,818.76	.....
3,895.02	1,681.17	895.95	26,880.01	27,828.02	948.01	.....
1,962.68	838.81	451.47	8,090.98	8,458.61	367.63	.....
2,125.31	928.54	488.88	15,355.92	12,835.26	.....	2,520.66
2,681.95	1,171.73	616.92	13,619.31	12,212.54	.....	1,406.77
1,912.56	830.00	439.93	10,392.32	9,034.92	.....	1,357.40
3,602.60	1,478.76	828.69	31,649.04	33,774.01	2,124.97	.....
5,050.30	2,205.92	1,161.70	28,646.13	28,030.65	.....	615.48
3,994.98	1,697.30	918.95	20,842.17	20,085.76	.....	756.41
835.96	355.89	192.29	3,107.04	2,345.57	.....	761.47
3,458.81	1,511.14	795.61	28,510.11	30,363.93	1,853.82	.....
7,373.11	3,221.28	1,696.00	37,167.70	33,885.87	.....	3,281.83
2,650.07	1,153.74	609.58	18,189.72	18,240.46	50.74	.....
4,635.27	1,973.58	1,066.24	36,708.82	36,728.86	20.04	.....
7,544.19	3,247.24	1,735.35	49,275.68	56,350.78	7,075.10	.....
2,913.27	1,272.80	670.13	17,321.62	15,222.82	.....	2,098.80

Note—For townships included in rural power districts see "Cost of power" statement preceding.

NIAGARA SYSTEM—

Statement showing the cost of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding	Cost of operation maintenance and administration
	Total capital cost	Government grant	Commission's investment		
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
London R.P.D.....	*526,617.57	262,661.44	263,956.13	53,141.21	24,319.31
Lucan R.P.D.....	*98,467.23	48,766.69	49,700.54	2,674.55	1,924.32
Lynden R.P.D.....	131,068.62	65,050.76	66,017.86	5,972.31	3,635.44
Markham R.P.D.....	*304,109.08	151,963.41	152,145.67	18,317.52	9,402.22
Merlin R.P.D.....	174,062.57	87,031.28	87,031.29	8,174.20	3,218.53
Milton R.P.D.....	146,959.15	73,479.58	73,479.57	5,928.21	3,836.92
Milverton R.P.D.....	88,259.45	44,129.73	44,129.72	3,499.33	2,838.42
Mitchell R.P.D.....	134,912.82	67,456.41	67,456.41	7,120.40	4,486.20
Newmarket R.P.D.....	162,307.82	81,153.91	81,153.91	9,467.12	5,525.67
Niagara R.P.D.....	*147,105.87	73,211.00	73,894.87	13,277.21	5,479.98
Norwich R.P.D.....	*247,620.19	121,190.59	126,429.60	11,248.32	7,786.67
Oil Springs R.P.D.....	34,367.10	17,183.55	17,183.55	1,755.75	1,443.81
Palmerston R.P.D.....	*81,549.28	40,050.22	41,499.06	2,173.48	2,782.47
Petrolia R.P.D.....	*41,104.95	19,999.11	21,105.84	1,223.79	1,239.72
Preston R.P.D.....	*389,023.26	193,168.03	195,855.23	29,022.11	17,273.45
Ridgetown R.P.D.....	228,900.02	114,450.01	114,450.01	12,051.33	6,800.24
St. Jacobs R.P.D.....	125,243.33	62,335.93	62,907.40	7,076.22	4,630.88
St. Marys R.P.D.....	241,476.37	120,738.18	120,738.19	9,807.15	5,143.00
St. Thomas R.P.D.....	381,399.18	189,425.03	191,974.15	21,464.68	11,817.97
Saltfleet R.P.D.....	364,715.11	179,511.07	185,204.04	33,424.47	15,510.72
Sandwich R.P.D.....	374,049.66	187,019.92	187,029.74	30,069.89	18,027.03
Sarnia R.P.D.....	*267,277.35	131,497.80	135,779.55	22,340.06	9,977.08
Scarboro R.P.D.....	256,378.09	128,189.05	128,189.04	14,537.25	7,859.76
Seaforth R.P.D.....	32,133.77	15,448.94	16,684.83	2,253.13	1,871.10
Simcoe R.P.D.....	185,101.83	92,380.63	92,721.20	9,721.64	5,959.06
Stamford R.P.D.....	43,172.28	21,586.14	21,586.14	4,428.47	3,583.36
Stratford R.P.D.....	70,756.27	35,117.28	35,638.99	5,809.96	3,034.86
Strathroy R.P.D.....	151,633.18	75,639.82	75,993.36	4,743.07	2,524.05
Streetsville R.P.D.....	216,412.17	108,206.09	108,206.08	11,138.62	5,796.07
Tavistock R.P.D.....	176,140.50	88,049.67	88,090.83	7,777.98	4,431.90
Thamesville R.P.D.....	135,622.08	67,559.55	68,062.53	4,318.92	2,717.87
Tilbury R.P.D.....	*182,015.86	89,534.27	92,481.59	8,664.32	3,762.65
Tillsonburg R.P.D.....	270,846.10	135,423.05	135,423.05	13,982.83	8,111.65
Wallaceburg R.P.D.....	224,478.10	111,855.08	112,623.02	8,822.47	6,615.78
Walsingham R.P.D.....	352,583.87	176,291.94	176,291.93	13,279.47	9,440.21
Walton R.P.D.....	*109,814.77	52,608.95	57,205.82	4,803.98	3,648.38
Waterdown R.P.D.....	279,679.83	129,486.76	150,193.07	32,910.64	11,439.08
Waterford R.P.D.....	160,946.34	80,473.17	80,473.17	7,479.24	4,252.11
Watford R.P.D.....	24,479.85	12,239.93	12,239.92	1,531.66	826.22
Welland R.P.D.....	729,694.93	360,449.75	369,245.18	35,085.23	25,264.74
Woodbridge R.P.D.....	*438,224.07	218,085.74	220,138.33	20,183.19	8,488.45
Woodstock R.P.D.....	279,193.65	139,596.82	139,596.83	19,255.44	8,336.42
Total capital.....	16,449,396.25	8,154,678.00	8,294,718.25		
Non-operating capital....	110,207.01	54,511.84	55,695.17		
Grand Totals.....	16,559,603.26	8,209,189.84	8,350,413.42	990,160.17	536,948.26

Note—Items marked *include portions of transmission lines aggregating \$55,416.91 used for purposes of rural power districts.

RURAL POWER DISTRICTS

N.—RURAL OPERATING

District, the revenue collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

Interest	Provision for depreciation and obsolescence	Sinking fund	Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,728.53	5,111.21	2,697.86	96,998.12	107,223.54	10,225.42	.....
1,843.15	795.93	423.97	7,661.92	6,611.38	.....	1,050.54
2,876.67	1,247.27	661.71	14,393.40	12,924.89	.....	1,468.51
6,630.75	2,895.12	1,525.24	38,770.85	42,444.17	3,673.32	.....
3,678.21	1,606.99	846.08	17,524.01	17,521.98	.....	2.03
3,241.88	1,416.36	745.71	15,169.08	15,691.57	522.49	.....
1,905.42	832.47	438.30	9,513.94	8,450.27	.....	1,063.67
2,874.50	1,255.86	661.21	16,398.17	16,017.95	.....	380.22
3,538.44	1,545.93	813.93	20,891.09	21,613.21	722.12	.....
3,241.80	1,409.49	745.70	24,154.18	27,567.06	3,412.88	.....
5,492.12	2,347.08	1,263.33	28,137.52	26,652.53	.....	1,484.99
716.69	313.12	164.86	4,394.23	4,937.49	543.26	.....
1,555.34	667.44	357.76	7,536.49	4,586.27	.....	2,950.22
832.62	352.70	191.53	3,840.36	4,148.62	308.26	.....
8,753.12	3,797.32	2,013.44	60,859.44	57,455.76	.....	3,403.68
5,016.22	2,191.57	1,153.86	27,213.22	28,356.67	1,143.45	.....
2,753.14	1,197.12	633.30	16,290.66	16,355.33	64.67	.....
5,189.59	2,267.31	1,193.74	23,600.79	20,844.98	.....	2,755.81
8,242.85	3,577.27	1,896.07	46,998.84	46,245.72	.....	753.12
8,016.44	3,393.46	1,843.99	62,189.08	70,832.99	8,643.91	.....
8,263.70	3,610.29	1,900.86	61,871.77	75,200.17	13,328.40	.....
5,785.20	2,484.71	1,330.75	41,737.80	48,409.09	6,671.29	.....
5,576.99	2,436.56	1,282.85	31,693.41	40,120.94	8,427.53	.....
759.95	319.66	174.80	5,378.64	4,662.87	.....	715.77
3,887.33	1,694.96	894.19	22,157.18	23,145.55	988.37	.....
956.19	417.76	219.95	9,605.73	12,366.07	2,760.34	.....
1,602.66	694.98	368.65	11,511.11	11,994.94	483.83	.....
2,897.63	1,262.43	666.52	12,093.70	11,501.09	.....	592.61
4,782.51	2,089.46	1,100.10	24,906.76	24,441.11	.....	465.65
3,688.21	1,610.95	848.38	18,357.42	16,970.47	.....	1,386.95
2,866.78	1,247.45	659.43	11,810.45	13,338.59	1,528.14	.....
3,816.59	1,637.98	877.92	18,759.46	20,704.84	1,945.38	.....
5,907.57	2,580.99	1,358.89	31,941.93	30,294.50	.....	1,647.43
4,454.17	1,938.33	1,024.58	22,855.33	23,088.19	232.86	.....
6,982.26	3,050.52	1,606.10	34,358.56	36,566.48	2,207.92	.....
2,336.63	974.90	537.48	12,301.37	12,135.15	.....	166.22
6,097.41	2,252.88	1,402.56	54,102.57	53,095.10	3,992.53	.....
3,454.01	1,509.04	794.51	17,488.91	17,873.47	384.56	.....
556.93	243.32	128.11	3,286.24	2,666.12	.....	620.12
16,535.50	7,088.51	3,803.60	87,777.58	107,555.35	19,777.77	.....
9,702.76	4,218.57	2,231.88	44,824.85	51,465.91	6,641.06	.....
6,039.79	2,638.76	1,389.31	37,659.72	38,177.72	518.00	.....
.....
.....
355,135.86	153,281.88	81,690.32	2,117,216.49	2,217,831.30	157,466.98	56,852.17

Note—For townships included in rural power districts see "Cost of power" statement preceding.

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	Jan. 1913	1,289.13			1,289.13
Agincourt.....	Nov. 1922	444.79			444.79
Ailsa Craig.....	Jan. 1916	374.30			374.30
Alvinston.....	April 1922	402.08			402.08
Amherstburg.....	Nov. 1925	2,745.11			2,745.11
Ancaster twp.....	May 1923	164.30			164.30
Arkona.....	Dec. 1926	16.59			16.59
Aylmer.....	Mar. 1918	1,304.63			1,304.63
Ayr.....	Jan. 1915	384.45			384.45
Baden.....	May 1912	488.65			488.65
Beachville.....	Aug. 1912	540.86			540.86
Beamsville.....	May 1937				
Belle River.....	Dec. 1922	439.71			439.71
Blenheim.....	Nov. 1915	908.75			908.75
Blyth.....	July 1924	464.55			464.55
Bolton.....	Feb. 1915	500.76			500.76
Bothwell.....	Sept. 1915	149.95			149.95
Brampton.....	Nov. 1911	4,426.64			4,426.64
Brantford.....	Feb. 1914	135.04			135.04
Brantford twp.....	May 1924	827.24			827.24
Bridgeport.....	Mar. 1928	365.61			365.61
Brigden.....	Jan. 1918	266.21			266.21
Brussels.....	July 1924	532.60			532.60
Burford.....	June 1915	207.58			207.58
Burgessville.....	Nov. 1916	119.17			119.17
Caledonia.....	Oct. 1912	822.31			822.31
Campbellville.....	Jan. 1925	101.33			101.33
Cayuga.....	Nov. 1924	206.65			206.65
Chatham.....	Feb. 1915	5,768.64			5,768.64
Chippawa.....	Sept. 1919	132.62		3.95	136.57
Clifford.....	May 1924	373.39			373.39
Clinton.....	Mar. 1914	890.34			890.34
Comber.....	May 1915	406.70			406.70
Cottam.....	Nov. 1926	217.22			217.22
Courtright.....	Dec. 1923		68.08	68.08	
Dashwood.....	Sept. 1917	491.78			491.78
Delaware.....	Mar. 1915	182.93		1.44	184.37
Dorchester.....	Dec. 1914	358.64			358.64
Drayton.....	Mar. 1918	427.38			427.38
Dresden.....	April 1915	793.60			793.60
Drumbo.....	Dec. 1914	159.21			159.21
Dublin.....	Oct. 1917		589.72	655.73	66.01
Dundas.....	Jan. 1911	2,397.52			2,397.52
Dunnville.....	June 1918	966.15			966.15
Dutton.....	Sept. 1915	600.34			600.34

SYSTEM

N.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
24.58	440.23	.....	464.81	.....
7.41	564.98	.....	572.39	.....
8.49	608.25	.....	616.74	.....
8.24	688.60	.....	696.84	.....
56.91	3,013.16	.....	3,070.07	.....
2.88	192.56	.....	195.44	.....
0.36	256.62	.....	256.98	.....
21.59	1,415.44	.....	1,437.03	.....
6.70	431.51	.....	438.21	.....
9.53	468.97	.....	478.50	.....
11.85	1,020.45	.....	1,032.30	.....
8.57	605.50	.....	614.07	.....
18.03	1,362.07	.....	1,380.10	.....
9.70	642.63	.....	652.33	.....
9.60	760.61	.....	770.21	.....
2.97	668.74	.....	671.71	.....
74.22	6,091.87	.....	6,166.09	.....
2.68	425.72	.....	423.04
13.60	1,017.68	.....	1,031.28	.....
7.69	304.53	.....	312.22	.....
4.43	375.78	.....	380.21	.....
10.91	712.77	.....	723.68	.....
4.55	445.76	.....	450.31	.....
1.98	33.69	.....	35.67	.....
15.50	713.67	.....	729.17	.....
1.73	168.39	.....	170.12	.....
3.44	565.99	.....	569.43	.....
99.25	7,593.46	.....	7,692.71	.....
2.91	419.38	.....	422.29	.....
7.42	367.74	.....	375.16	.....
14.83	433.03	.....	447.86	.....
7.67	672.76	.....	680.43	.....
4.09	195.22	.....	199.31	.....
.....	1.17	157.88	.....	156.71	.....
8.89	523.92	.....	532.81	.....
3.74	352.71	.....	356.45	.....
7.25	393.27	.....	400.52	.....
8.76	456.34	.....	465.10	.....
13.31	1,594.91	.....	1,608.22	.....
2.67	296.04	.....	298.71	.....
.....	19.72	114.68	.....	94.96	.....
45.45	2,007.27	.....	2,052.72	.....
18.53	2,907.80	.....	2,926.33	.....
9.93	673.13	.....	683.06	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Elmira.....	Nov. 1913	2,802.12			2,802.12
Elora.....	Nov. 1914	294.18			294.18
Embro.....	Jan. 1915	608.92			608.92
Erieau.....	July 1924	424.30			424.30
Erie Beach.....	July 1925	102.10			102.10
Essex.....	Nov. 1923	792.22			792.22
Etobicoke twp.....	Aug. 1917	4,131.70			4,131.70
Exeter.....	June 1916	1,124.38			1,124.38
Fergus.....	Nov. 1914	3,477.26			3,477.26
Fonthill.....	June 1926	215.96			215.96
Forest.....	Mar. 1917	600.20			600.20
Galt.....	May 1911		2,045.26	2,045.26	
Georgetown.....	Sept. 1913	2,622.52			2,622.52
Glencoe.....	Aug. 1920	920.20			920.20
Goderich.....	Feb. 1914	2,778.06			2,778.06
Granton.....	July 1916	473.81			473.81
Guelph.....	Dec. 1910	9,207.45			9,207.45
Hagersville.....	Sept. 1913	549.09			549.09
Hamilton.....	Feb. 1911	20,322.72			20,322.72
Harriston.....	July 1916	1,002.42			1,002.42
Harrow.....	Nov. 1923	1,260.74			1,260.74
Hensall.....	Jan. 1917	725.09			725.09
Hespeler.....	Feb. 1911	2,742.84			2,742.84
Highgate.....	Dec. 1916	216.80			216.80
Humberstone.....	Oct. 1924	511.27			511.27
Ingersoll.....	May 1911		4,616.74	2,616.74	
Jarvis.....	Feb. 1924	70.45		1.32	71.77
Kingsville.....	Nov. 1923	1,338.20			1,338.20
Kitchener.....	Jan. 1911	4,712.07			4,712.07
Lambeth.....	April 1915	102.07			102.07
LaSalle.....	Nov. 1925	425.30		1.53	426.83
Leamington.....	Nov. 1923	2,848.91			2,848.91
Listowel.....	June 1916	2,229.68			2,229.68
London.....	Jan. 1916	34,818.84			34,818.84
London Railway Commission...	Aug. 1914		4,332.98	4,332.98	
London twp.....	Jan. 1925	1,402.82			1,402.82
Long Branch.....	Jan. 1931	1,301.21			1,301.21
Lucan.....	Feb. 1915	363.25			363.25
Lynden.....	Nov. 1915	328.40			328.40
Markham.....	April 1920	654.62			654.62
Merlin.....	Dec. 1922	603.21			603.21
Merriton.....	Nov. 1920	4,382.84			4,382.84
Milton.....	April 1913	1,361.34			1,361.34
Milverton.....	June 1916	286.02			286.02
Mimico.....	May 1912	522.94			522.94

SYSTEM

N.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
50.22	2,421.56	.....	2,471.78	.....
4.80	569.00	.....	573.80	.....
11.60	820.71	.....	832.31	.....
8.99	742.20	.....	751.19	.....
2.08	272.91	.....	274.99	.....
17.28	1,185.33	.....	1,202.61	.....
81.95	3,734.13	.....	3,816.08	.....
18.61	1,165.89	.....	1,184.50	.....
60.75	3,987.46	.....	4,048.21	.....
3.60	375.12	.....	378.72	.....
9.80	1,422.66	.....	1,432.46	.....
.....	34.34	.....	4,211.15	.....	4,245.49
42.82	3,365.66	.....	3,408.48	.....
18.61	1,602.80	.....	1,621.41	.....
47.49	2,201.38	.....	2,248.87	.....
8.62	452.55	.....	461.17	.....
182.64	7,045.80	.....	7,228.44	.....
11.97	1,090.93	.....	1,102.90	.....
331.84	25,175.82	.....	24,843.98
19.90	846.41	.....	866.31	.....
22.14	1,697.45	.....	1,719.59	.....
16.41	877.15	.....	893.56	.....
51.70	2,138.03	.....	2,189.73	.....
4.28	327.64	.....	331.92	.....
8.52	326.45	.....	334.97	.....
.....	119.03	512.00	.....	.....	1,607.03
1.47	563.07	.....	564.54	.....
24.93	1,911.80	.....	1,936.73	.....
102.76	3,180.13	.....	3,282.89	.....
2.08	408.71	.....	410.79	.....
8.11	325.74	.....	333.85	.....
48.08	3,979.79	.....	4,027.87	.....
36.65	2,793.04	.....	2,829.69	.....
675.39	15,581.25	.....	16,256.64	.....
.....	109.69	.....	.....	.....	109.69
23.85	1,444.18	.....	1,468.03	.....
21.67	1,025.98	.....	1,047.65	.....
7.21	351.82	.....	359.03	.....
7.52	397.98	.....	405.50	.....
13.34	557.89	.....	571.23	.....
12.59	317.56	.....	330.15	.....
82.61	1,687.16	.....	1,769.77	.....
22.23	2,801.59	.....	2,823.82	.....
4.83	603.64	.....	608.47	.....
10.32	480.42	.....	470.10

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Mitchell.....	Sept. 1911	760.01	.....	.....	760.01
Moorefield.....	Mar. 1918	316.44	.....	.....	316.44
Mount Brydges.....	Mar. 1915	300.34	.....	.....	300.34
Newbury.....	Mar. 1921	198.53	.....	.....	198.53
New Hamburg.....	Mar. 1911	1,219.97	.....	.....	1,219.97
New Toronto.....	Feb. 1914	10,987.52	.....	.....	10,987.52
Niagara Falls.....	Dec. 1915	.....	21,113.05	21,212.27	99.22
Niagara-on-the-Lake.....	Aug. 1919	840.24	.....	.....	840.24
Norwich.....	May 1912	564.31	.....	.....	564.31
Oil Springs.....	Feb. 1918	679.87	.....	.....	679.87
Otterville.....	Feb. 1916	419.85	.....	.....	419.85
Palmerston.....	July 1916	1,033.32	.....	.....	1,033.32
Paris.....	Feb. 1914	428.04	.....	.....	428.04
Parkhill.....	May 1920	778.53	.....	.....	778.53
Petrolia.....	May 1916	2,835.02	.....	.....	2,835.02
Plattsville.....	Dec. 1914	242.94	.....	.....	242.94
Point Edward.....	Nov. 1916	3,630.78	.....	.....	3,630.78
Port Colborne.....	Mar. 1920	2,158.28	.....	.....	2,158.28
Port Credit.....	Aug. 1912	1,238.28	.....	.....	1,238.28
Port Dalhousie.....	Nov. 1912	1,260.32	.....	.....	1,260.32
Port Dover.....	Dec. 1921	823.65	.....	.....	823.65
Port Rowan.....	Nov. 1926	542.46	.....	.....	542.46
Port Stanley.....	April 1912	1,163.99	.....	.....	1,163.99
Preston.....	Jan. 1911	.....	179.51	179.51	.....
Princeton.....	Jan. 1915	318.42	.....	.....	318.42
Queenston.....	Mar. 1921	99.13	.....	.....	99.13
Richmond Hill.....	June 1925	678.04	.....	.....	678.04
Ridgetown.....	Dec. 1915	663.43	.....	.....	663.43
Riverside.....	Nov. 1922	836.28	.....	.....	836.28
Rockwood.....	Sept. 1913	4.62	.....	.....	4.62
Rodney.....	Feb. 1917	33.07	.....	.....	33.07
St. Catharines.....	April 1914	1,372.21	.....	109.88	1,482.09
St. Clair.....	Nov. 1922	69.96	.....	.....	69.96
St. George.....	Sept. 1915	605.32	.....	.....	605.32
St. Jacobs.....	Sept. 1917	694.43	.....	.....	694.43
St. Marys.....	May 1911	3,235.45	.....	.....	3,235.45
St. Thomas.....	April 1911	7,562.83	.....	.....	7,562.83
Sarnia.....	Dec. 1916	10,170.49	.....	.....	10,170.49
Scarboro twp.....	Aug. 1918	6,597.35	.....	.....	6,597.35
Seaforth.....	Nov. 1911	820.80	.....	.....	820.80
Simcoe.....	Aug. 1915	2,838.95	.....	.....	2,838.95
Springfield.....	Aug. 1917	121.71	.....	.....	121.71
Stamford twp.....	Nov. 1916	.....	7,715.55	2,613.13	.....
Stouffville.....	Sept. 1923	501.41	.....	.....	501.41
Stratford.....	Jan. 1911	9,088.09	.....	.....	9,088.09

SYSTEM

N.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
14.58	690.48	.....	705.06	.....
6.28	183.38	.....	189.66	.....
4.97	429.43	.....	434.40	.....
3.33	378.72	.....	382.05	.....
20.91	1,417.71	.....	1,438.62	.....
179.41	10,160.21	.....	10,339.62	.....
.....	370.21	.....	5,907.22	.....	6,277.43
14.33	50.57	.....	36.24
9.40	761.20	.....	770.60	.....
13.34	807.58	.....	820.92	.....
8.68	434.60	.....	443.28	.....
13.70	1,256.61	.....	1,270.31	.....
6.99	493.91	.....	500.90	.....
13.76	1,034.02	.....	1,047.78	.....
47.85	2,672.16	.....	2,720.01	.....
3.99	445.41	.....	449.40	.....
63.09	3,025.63	.....	3,088.72	.....
35.95	1,696.04	.....	1,731.99	.....
20.76	1,785.36	.....	1,806.12	.....
21.52	1,289.12	.....	1,310.64	.....
13.76	1,546.05	.....	1,559.81	.....
10.04	926.20	.....	936.24	.....
21.53	1,390.58	.....	1,412.11	.....
.....	3.62	.....	1,350.56	.....	1,354.18
6.32	499.90	.....	506.22	.....
1.64	45.19	.....	46.83	.....
14.79	699.35	.....	714.14	.....
12.87	1,345.15	.....	1,358.02	.....
16.59	576.55	.....	593.14	.....
0.09	379.94	.....	380.03	.....
0.64	339.17	.....	339.81	.....
28.54	9,263.77	.....	9,235.23
1.38	46.48	.....	47.86	.....
11.88	826.35	.....	838.23	.....
14.31	684.09	.....	698.40	.....
64.18	4,131.56	.....	4,195.74	.....
125.98	5,256.96	.....	5,382.94	.....
171.64	6,929.08	.....	7,100.72	.....
109.17	6,485.73	.....	6,594.90	.....
13.58	272.89	.....	286.47	.....
56.27	2,950.85	.....	3,007.12	.....
2.67	66.84	.....	64.17
.....	281.59	.....	1,243.89	.....	6,627.90
9.56	844.99	.....	854.55	.....
172.30	7,710.05	.....	7,882.35	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Strathroy.....	Dec. 1914	3,088.04			3,088.04
Streetsville.....	Dec. 1934	487.92			487.92
Sutton.....	Aug. 1923	1,051.71			1,051.71
Swansea.....	Oct. 1937				
Tavistock.....	Nov. 1916	1,389.85			1,389.85
Tecumseh.....	Nov. 1922	62.95		100.00	162.95
Thamesford.....	Feb. 1914	643.25			643.25
Thamesville.....	Oct. 1915	730.83			730.83
Thedford.....	May 1922	355.53			355.53
Thorndale.....	Mar. 1914	184.02			184.02
Thorold.....	Jan. 1921	1,377.30		4.00	1,381.30
Tilbury.....	April 1915	1,096.16			1,096.16
Tillsonburg.....	Aug. 1911	1,277.81			1,277.81
Toronto.....	June 1911	39,500.53			39,500.53
Toronto twp.....	Aug. 1913	2,223.21			2,223.21
Trafalgar twp. Area 1.....	Nov. 1937				
Trafalgar twp. Area 2.....	Nov. 1937		3,597.20	3,597.20	
Wallaceburg.....	Feb. 1915	1,944.38			1,944.38
Wardsville.....	June 1921	231.71			231.71
Waterdown.....	Nov. 1911	507.31			507.31
Waterford.....	April 1915	687.22			687.22
Waterloo.....	Dec. 1910		730.70	730.70	
Watford.....	Sept. 1917	600.13			600.13
Welland.....	Sept. 1917		965.91	965.91	
Wellesley.....	Nov. 1916	410.49			410.49
West Lorne.....	Jan. 1917	20.49			20.49
Weston.....	Jan. 1911	3,157.66			3,157.66
Wheatley.....	Feb. 1924	522.22			522.22
Windsor.....	Oct. 1914	46,662.27			46,662.27
Woodbridge.....	Dec. 1914	1,241.01			1,241.01
Woodstock.....	Jan. 1911	862.36			862.36
Wyoming.....	Nov. 1916	146.32			146.32
York East twp.....	July 1925	4,269.76			4,269.76
York North twp.....	Nov. 1923	2,782.60		5.64	2,788.24
Zurich.....	Sept. 1917	572.25			572.25
Mimico Asylum.....	Sept. 1913	298.71			298.71
Ontario Reformatory.....	Sept. 1913	332.39			332.39
Prison Brick Yard.....			66.92	66.92	
Toronto Transportation Commission.....	Jan. 1927	2,113.14			2,113.14
Sandwich, Windsor & Amherstburg Railway.....					
Totals—Municipalities.....		348,020.18	46,021.62	39,312.19	348,413.17
*RURAL POWER DISTRICTS					
Acton R.P.D.....	Feb. 1928		396.81		39.36

*For townships included in rural power districts see "Cost of Power" statement preceding.

SYSTEM

N.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
64.06		3,739.23		3,803.29	
10.10		532.10		542.20	
19.03		1,644.64		1,663.67	
		23.89		23.89	
27.27		1,378.79		1,406.06	
0.99			217.78		216.79
11.45		885.95		897.40	
14.36		1,040.18		1,054.54	
7.08		608.15		615.23	
3.65		475.95		479.60	
27.03		574.06		601.09	
18.74		1,821.60		1,840.34	
21.15		2,295.55		2,316.70	
753.22			89,470.61		88,717.39
45.10		999.18		1,044.28	
			779.83		779.83
			106.63		106.63
38.35		4,674.40		4,712.75	
4.71		429.25		433.96	
8.28		584.30		592.58	
13.33		773.64		786.97	
	12.17		905.28		917.45
11.64		1,296.47		1,308.11	
	16.09	4,584.48		4,568.39	
7.31		547.14		554.45	
0.37		87.84		88.21	
62.63		1,803.54		1,866.17	
10.64		1,068.58		1,079.22	
761.94		63,156.12		63,918.06	
21.47		1,656.28		1,677.75	
16.54		2,048.73		2,065.27	
3.21		354.17		357.38	
69.72		2,318.86		2,388.58	
46.28		3,471.44		3,517.72	
10.62		730.06		740.68	
5.66		386.57		392.23	
6.63		424.73		431.36	
	1.18	70.70		69.52	
45.08		1,832.81		1,877.89	
		13,085.11		13,085.11	
6,295.31	968.81	314,095.71	139,656.09	318,696.27	146,032.57
	16.27	68.98			383.46

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Rural power district*	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Ailsa Craig R.P.D.....	Sept. 1930	.....	397.01	.....	.....
Alvinston R.P.D.....	June 1929	.....	744.00	17.80	.....
Amherstburg R.P.D.....	Nov. 1923	40,333.95	.....	228.98	.....
Aylmer R.P.D.....	Nov. 1922	26,595.59	.....	374.36	498.35
Ayr R.P.D.....	July 1926	.....	1,842.03	6.29	15.00
Baden R.P.D.....	Sept. 1922	.....	8,007.75	122.75	90.00
Beamsville R.P.D.....	Jan. 1923	67,206.87	.....	.....	471.21
Belle River R.P.D.....	Dec. 1922	41,123.46	.....	455.00	125.51
Blenheim R.P.D.....	July 1924	29,109.57	.....	35.00	24.34
Bond Lake R.P.D.....	Mar. 1924	69,053.31	.....	10.87	75.00
Bothwell R.P.D.....	Dec. 1923	7,702.89	.....	83.12	.....
Brampton R.P.D.....	Nov. 1923	.....	5,992.65	15.00	23.78
Brant R.P.D.....	Oct. 1922	.....	7,115.31	80.00	88.49
Brigden R.P.D.....	Jan. 1927	.....	5,006.89	68.31	.....
Burford R.P.D.....	Dec. 1926	1,855.01	.....	50.14	105.00
Caledonia R.P.D.....	Oct. 1925	.....	1,336.09	.....	716.74
Chatham R.P.D.....	May 1922	23,398.10	.....	219.43	200.00
Chippawa R.P.D.....	July 1922	2,268.62	.....	.....	193.33
Clinton R.P.D.....	July 1928	.....	3,704.36	50.00	37.41
Delaware R.P.D.....	Oct. 1922	7,158.94	.....	30.00	71.81
Dorchester R.P.D.....	Dec. 1921	4,278.13	.....	.....	97.03
Dresden R.P.D.....	May 1928	.....	560.28	24.50	50.00
Dumbo R.P.D.....	Aug. 1922	.....	2,898.35	.....	85.66
Dundas R.P.D.....	Jan. 1922	30,575.71	.....	37.86	65.00
Dunnville R.P.D.....	July 1928	.....	6,383.97	5.00	70.23
Dutton R.P.D.....	Feb. 1926	.....	7,153.24	719.26	.....
Elmira R.P.D.....	June 1926	.....	2,783.91	116.08	.....
Elora R.P.D.....	Jan. 1926	.....	4,589.16	.....	165.89
Essex R.P.D.....	Nov. 1924	31,471.52	.....	259.31	.....
Exeter R.P.D.....	Nov. 1922	17,907.61	.....	105.00	4.43
Forest R.P.D.....	Nov. 1926	831.31	.....	87.45	80.00
Galt R.P.D.....	Oct. 1922	.....	929.74	40.00	25.90
Georgetown R.P.D.....	Nov. 1924	.....	2,968.14	4.45	110.00
Goderich R.P.D.....	June 1925	.....	8,835.86	25.00	99.56
Grantham R.P.D.....	Nov. 1924	436.43	.....	512.57	415.00
Guelph R.P.D.....	Jan. 1925	.....	11,777.05	46.25	.....
Haldimand R.P.D.....	Oct. 1925	.....	9,304.84	36.03	40.00
Harriston R.P.D.....	Dec. 1929	.....	3,645.38	38.58	.....
Harrow R.P.D.....	Nov. 1923	30,531.18	.....	221.42	115.00
Ingersoll R.P.D.....	Oct. 1922	.....	11,530.21	29.37	156.71
Jordan R.P.D.....	May 1922	9,480.11	.....	.....	204.57
Keswick R.P.D.....	Mar. 1924	.....	18,538.34	55.92	.....
Kingsville R.P.D.....	Nov. 1923	52,934.44	.....	761.94	.....
Listowel R.P.D.....	Oct. 1926	.....	5,401.59	.....	119.27
London R.P.D.....	Nov. 1922	22,057.74	.....	.....	224.00

*For townships included in rural power districts see "Cost of Power" statement preceding.

SYSTEM

N.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	15.88	.....	283.89	.....	696.78
.....	29.56	.....	371.24	.....	1,127.00
1,614.36	.....	5,108.00	.....	47,285.29	.....
1,047.23	.....	4,807.23	.....	32,326.06	.....
.....	74.28	.....	412.34	.....	2,337.36
.....	323.91	.....	6,836.36	.....	15,135.27
2,674.67	.....	10,600.80	.....	80,011.13	.....
1,663.14	.....	2,972.60	.....	46,088.69	.....
1,165.78	.....	2,400.56	.....	32,686.57	.....
2,759.13	.....	3,394.73	.....	75,143.04	.....
309.72	.....	4,071.89	.....	12,167.62	.....
.....	239.11	.....	2,795.30	.....	9,035.84
.....	281.41	.....	3,419.80	.....	10,825.01
.....	198.68	.....	769.49	.....	5,906.75
70.00	.....	1,004.86	.....	2,875.01	.....
.....	69.64	.....	1,719.56	.....	3,842.03
927.92	.....	4,350.12	.....	28,695.57	.....
86.74	.....	750.26	.....	2,912.29	.....
.....	146.17	69.08	.....	.....	3,768.86
287.56	.....	3,396.45	.....	10,801.14	.....
167.93	.....	64.59	.....	4,413.62	.....
.....	24.41	.....	298.97	.....	909.16
.....	119.13	.....	1,607.51	.....	4,710.65
1,220.43	.....	.....	1,528.80	30,240.20	.....
.....	255.16	.....	1,186.53	.....	7,890.89
.....	262.33	.....	1,314.17	.....	8,010.48
.....	110.56	.....	469.22	.....	3,247.61
.....	185.57	.....	132.63	.....	5,073.25
1,262.26	.....	2,818.76	.....	35,811.85	.....
720.50	.....	948.01	.....	19,676.69	.....
30.05	.....	367.63	.....	1,236.44	.....
.....	35.59	.....	2,520.66	.....	3,471.89
.....	123.13	.....	1,406.77	.....	4,603.59
.....	352.43	.....	1,357.40	.....	10,620.25
0.86	.....	2,124.97	.....	2,659.83	.....
.....	470.28	.....	615.48	.....	12,816.56
.....	373.79	.....	756.41	.....	10,439.01
.....	145.42	.....	761.47	.....	4,513.69
1,216.65	.....	1,853.82	.....	33,708.07	.....
.....	467.11	.....	3,281.83	.....	15,406.49
376.00	.....	50.74	.....	9,702.28	.....
.....	741.13	20.04	.....	.....	19,203.51
2,143.38	.....	7,075.10	.....	62,914.86	.....
.....	216.86	.....	2,098.80	.....	7,836.52
878.91	.....	10,225.42	.....	32,938.07	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Rural power district*	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Lucan R.P.D.	June 1926	.....	122.36	.....	231.31
Lynden R.P.D.	Feb. 1922	.....	3,889.09	.....	72.11
Markham R.P.D.	Dec. 1922	50,353.10	.....	25.00	31.38
Merlin R.P.D.	Nov. 1928	.....	2,173.90	570.00	103.19
Milton R.P.D.	Jan. 1925	4,695.66	.....	.....	108.13
Milverton R.P.D.	Aug. 1927	.....	7,066.87	3.38	50.00
Mitchell R.P.D.	Dec. 1925	1,986.95	.....	23.84	50.00
Newmarket R.P.D.	Mar. 1924	8,578.19	.....	.....	41.35
Niagara R.P.D.	Jan. 1922	27,857.84	.....	86.34	190.00
Norwich R.P.D.	May 1925	6,063.47	.....	29.07	25.00
Oil Springs R.P.D.	Dec. 1925	4,861.50	.....	.....	29.81
Palmerston R.P.D.	Oct. 1926	.....	8,530.26	111.36	.....
Petrolia R.P.D.	Aug. 1923	.....	83.35	.....	76.60
Preston R.P.D.	April 1922	10,922.63	.....	.....	123.70
Ridgetown R.P.D.	Mar. 1922	1,432.53	.....	55.00	54.11
St. Jacobs R.P.D.	Nov. 1922	.....	2,821.50	.....	201.06
St. Marys R.P.D.	Dec. 1927	.....	9,545.39	60.63	.....
St. Thomas R.P.D.	Aug. 1923	17,964.68	.....	.....	88.44
Saltfleet R.P.D.	Feb. 1922	24,897.57	.....	163.77	160.00
Sandwich R.P.D.	July 1922	75,875.08	.....	1,847.39	235.00
Sarnia R.P.D.	June 1923	28,643.25	.....	202.53	.....
Scarboro R.P.D.	Dec. 1923	56,576.64	.....	.....	568.56
Seaforth R.P.D.	Nov. 1927	.....	2,302.62	20.00	71.73
Simcoe R.P.D.	Nov. 1922	3,807.81	.....	.....	209.50
Stamford R.P.D.	Mar. 1922	10,635.54	.....	.....	241.17
Stratford R.P.D.	July 1924	.....	1,411.62	.....	.....
Strathroy R.P.D.	Dec. 1926	.....	896.00	.....	92.34
Streetsville R.P.D.	Nov. 1922	6,511.44	.....	60.00	135.75
Tavistock R.P.D.	April 1923	.....	3,194.05	49.32	.....
Thamesville R.P.D.	Nov. 1927	399.34	.....	94.03	170.00
Tilbury R.P.D.	Dec. 1923	10,108.60	.....	452.68	.....
Tillsonburg R.P.D.	Dec. 1923	3,078.15	.....	.....	49.81
Wallaceburg R.P.D.	Jan. 1923	11,753.26	.....	550.93	290.00
Walsingham R.P.D.	Dec. 1926	10,382.28	.....	41.31	115.00
Walton R.P.D.	Nov. 1924	1,223.08	.....	.....	66.44
Waterdown R.P.D.	Oct. 1922	55,321.39	.....	183.44	155.00
Waterford R.P.D.	Nov. 1923	2,621.02	.....	223.74	.....
Watford R.P.D.	Dec. 1929	102.58	.....	2.93	.....
Welland R.P.D.	April 1922	51,161.64	.....	175.00	384.64
Woodbridge R.P.D.	Jan. 1923	30,181.93	.....	.....	101.75
Woodstock R.P.D.	Feb. 1922	7,911.25	.....	12.88	.....
Totals—Rural power districts	.....	1,042,218.89	173,879.97	10,017.61	9,426.46
Totals—Municipalities	.....	348,020.18	46,021.62	39,312.19	348,413.17
Grand totals	.....	1,390,239.07	219,901.59	49,329.80	357,839.63

*For townships included in rural power districts see "Cost of Power" statement preceding.

SYSTEM

N.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	10.09	.....	1,050.54	.....	1,414.30
.....	157.76	.....	1,468.51	.....	5,587.47
2,015.12	.....	3,673.32	.....	56,035.16	.....
.....	64.16	.....	2.03	.....	1,773.28
185.23	.....	522.49	.....	5,295.25	.....
.....	284.67	.....	1,063.67	.....	8,461.83
77.48	.....	.....	380.22	1,658.05	.....
342.93	.....	722.12	.....	9,601.89	.....
1,106.71	.....	3,412.88	.....	32,273.77	.....
241.54	.....	.....	1,484.99	4,824.09	.....
193.66	.....	543.26	.....	5,568.61	.....
.....	339.61	.....	2,950.22	.....	11,708.73
.....	5.13	308.26	.....	143.18	.....
434.31	.....	.....	3,403.68	7,829.56	.....
58.36	.....	1,143.45	.....	2,635.23	.....
.....	113.26	64.67	.....	.....	3,071.15
.....	380.82	.....	2,755.81	.....	12,621.39
715.99	.....	.....	753.12	17,839.11	.....
989.50	.....	8,643.91	.....	34,534.75	.....
3,029.30	.....	13,328.40	.....	93,845.17	.....
1,150.73	.....	6,671.29	.....	36,667.80	.....
2,251.47	.....	8,427.53	.....	66,687.08	.....
.....	91.30	.....	715.77	.....	3,161.42
144.71	.....	988.37	.....	4,731.39	.....
419.22	.....	2,760.34	.....	13,573.93	.....
.....	56.46	483.83	.....	.....	984.25
.....	36.84	.....	592.61	.....	1,617.79
262.86	.....	.....	465.65	6,232.90	.....
.....	126.56	.....	1,386.95	.....	4,658.24
9.17	.....	1,528.14	.....	1,860.68	.....
421.74	.....	1,945.38	.....	12,928.40	.....
122.93	.....	.....	1,647.43	1,503.84	.....
458.53	.....	232.86	.....	12,705.58	.....
410.69	.....	2,207.92	.....	12,927.20	.....
48.72	.....	.....	166.22	1,039.14	.....
2,206.66	.....	3,992.53	.....	61,549.02	.....
113.24	.....	384.56	.....	3,342.56	.....
4.10	.....	.....	620.12	.....	510.51
2,053.47	.....	19,777.77	.....	72,783.24	.....
1,205.48	.....	6,641.06	.....	37,926.72	.....
316.85	.....	518.00	.....	8,758.98	.....
41,613.92	6,944.47	157,466.98	56,852.17	1,231,596.60	227,382.27
6,295.31	968.81	314,095.71	139,656.09	318,696.27	146,032.57
47,909.23	7,913.28	471,562.69	196,508.26	1,550,292.87	373,414.84

NIAGARA SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Municipality	Period of years ending Oct. 31, 1937	Amount	Municipality	Period of years ending Oct. 31, 1937	Amount
		\$ c.			\$ c.
Acton.....	20 years	55,180.77	Elmira.....	19 years	64,495.87
Agincourt.....	13 "	8,588.06	Elora.....	18 "	30,936.66
Ailsa Craig.....	17 "	12,930.98	Embros.....	18 "	9,300.21
Alvinston.....	14 "	12,851.89	Erieau.....	14 "	4,951.12
Amherstburg.....	20 "	42,147.91	Erie Beach.....	13 "	1,224.86
Ancaster twp.....	14 "	13,115.01	Essex.....	14 "	24,472.12
Arkona.....	11 "	4,874.10	Etobicoke twp.....	15 "	158,208.69
Aylmer.....	14 "	34,022.57	Exeter.....	16 "	33,835.17
Ayr.....	18 "	12,042.74	Fergus.....	18 "	47,494.52
Baden.....	20 "	26,691.31	Fonthill.....	12 "	4,804.30
Beachville.....	20 "	33,701.66	Forest.....	15 "	25,837.27
Beamsville.....	1 "	603.11	Galt.....	21 "	443,034.26
Belle River.....	15 "	8,115.57	Georgetown.....	19 "	82,297.20
Blenheim.....	17 "	30,546.46	Glencoe.....	14 "	16,368.81
Blyth.....	14 "	7,723.42	Goderich.....	18 "	100,629.49
Bolton.....	17 "	14,588.40	Granton.....	16 "	6,717.80
Bothwell.....	17 "	14,782.37	Guelph.....	21 "	538,267.86
Brampton.....	21 "	137,759.37	Hagersville.....	19 "	64,225.45
Brantford.....	18 "	723,880.44	Hamilton.....	21 "	3,642,406.53
Brantford twp.....	13 "	25,985.67	Harriston.....	16 "	27,476.64
Bridgeport.....	10 "	4,735.00	Harrow.....	14 "	18,915.01
Brigden.....	15 "	9,896.87	Hensall.....	16 "	13,126.36
Brussels.....	14 "	10,532.62	Hespeler.....	21 "	89,677.02
Burford.....	17 "	11,086.96	Highgate.....	16 "	8,116.61
Burgessville.....	16 "	4,415.99	Humberstone.....	14 "	16,136.67
Caledonia.....	20 "	18,195.73	Ingersoll.....	21 "	150,490.20
Campbellville.....	13 "	1,968.95	Jarvis.....	14 "	12,006.47
Cayuga.....	13 "	7,541.92	Kingsville.....	14 "	32,099.27
Chatham.....	17 "	320,462.33	Kitchener.....	21 "	1,039,730.09
Chippawa.....	15 "	14,059.30	Lambeth.....	17 "	7,839.02
Clifford.....	14 "	5,466.76	LaSalle.....	12 "	10,991.47
Clinton.....	18 "	38,117.37	Leamington.....	14 "	64,664.59
Comber.....	17 "	15,718.68	Listowel.....	16 "	61,491.53
Cottam.....	11 "	3,298.69	London.....	21 "	1,877,748.37
Courtright.....	14 "	4,610.14	London Ry. Comm...	18 "	110,175.66
Dashwood.....	15 "	6,939.79	London twp.....	13 "	14,788.59
Delaware.....	17 "	2,481.34	Long Branch.....	7 "	16,933.05
Dorchester.....	18 "	6,042.22	Lucan.....	17 "	15,253.19
Drayton.....	14 "	10,077.55	Lynden.....	17 "	11,211.44
Dresden.....	17 "	25,820.37	Markham.....	14 "	14,661.15
Drumbo.....	18 "	5,274.32	Merlin.....	14 "	9,863.34
Dublin.....	15 "	4,752.31	Merritton.....	16 "	103,072.69
Dundas.....	21 "	115,084.26	Milton.....	19 "	83,803.26
Dunnville.....	14 "	49,449.03	Milverton.....	16 "	36,233.34
Dutton.....	17 "	16,141.91	Mimico.....	20 "	112,767.41

NIAGARA SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Municipality	Period of years ending Oct. 31, 1937	Amount	Municipality	Period of years ending Oct. 31, 1937	Amount
		\$ c.			\$ c.
Mitchell.....	21 years	35,800.76	Strathroy.....	18 years	69,715.16
Moorefield.....	14 "	5,148.56	Streetsville.....	3 "	1,103.95
Mount Brydges....	17 "	6,082.29	Sutton.....	14 "	12,172.68
Newbury.....	14 "	3,734.18	Swansea.....	1 "	481.00
New Hamburg.....	21 "	40,348.95	Tavistock.....	16 "	35,801.46
New Toronto.....	18 "	349,833.96	Tecumseh.....	15 "	20,283.37
Niagara Falls.....	17 "	466,411.03	Thamesford.....	18 "	13,563.62
Niagara-on-the-Lake.	14 "	24,800.90	Thamesville.....	17 "	13,872.20
Norwich.....	20 "	29,951.10	Theford.....	14 "	7,430.40
Oil Springs.....	14 "	20,485.35	Thorndale.....	18 "	6,960.14
Otterville.....	16 "	6,924.22	Thorold.....	15 "	75,996.93
Palmerston.....	16 "	34,623.98	Tilbury.....	17 "	36,799.69
Paris.....	18 "	91,343.28	Tillsonburg.....	21 "	69,106.04
Parkhill.....	14 "	15,089.49	Toronto.....	21 "	15,431,836.92
Petrolia.....	16 "	82,554.07	Toronto twp.....	19 "	81,878.22
Plattsville.....	18 "	7,263.74	Trafalgar twp. area 1.	1 "	1,059.33
Point Edward.....	15 "	43,960.26	Trafalgar twp. area 2.	1 "	328.23
Port Colborne.....	16 "	75,319.21	Wallaceburg.....	17 "	148,403.64
Port Credit.....	20 "	31,109.23	Wardsville.....	14 "	2,883.29
Port Dalhousie.....	16 "	27,092.45	Waterdown.....	21 "	18,534.80
Port Dover.....	14 "	19,886.59	Waterford.....	17 "	25,530.97
Port Rowan.....	11 "	5,276.99	Waterloo.....	21 "	206,217.60
Port Stanley.....	20 "	32,146.35	Watford.....	15 "	17,987.66
Preston.....	21 "	212,525.29	Welland.....	15 "	222,128.27
Princeton.....	18 "	7,213.76	Wellesley.....	16 "	13,523.31
Queenston.....	14 "	5,452.46	West Lorne.....	16 "	21,205.55
Richmond Hill.....	13 "	14,466.52	Weston.....	21 "	184,792.77
Ridgetown.....	17 "	33,728.27	Wheatley.....	14 "	10,237.93
Riverside.....	15 "	65,359.06	Windsor.....	18 "	2,420,187.40
Rockwood.....	19 "	9,100.35	Woodbridge.....	18 "	23,804.44
Rodney.....	15 "	10,499.11	Woodstock.....	21 "	311,573.47
St. Catharines.....	16 "	445,725.45	Wyoming.....	16 "	6,592.21
St. Clair Beach.....	15 "	5,321.02	York East twp.....	13 "	205,824.60
St. George.....	17 "	11,336.69	York North twp....	14 "	99,786.84
St. Jacobs.....	15 "	12,315.05	Zurich.....	15 "	10,620.65
St. Marys.....	21 "	108,389.51	Mimico Asylum....	3 "	1,309.62
St. Thomas.....	21 "	390,893.08	Ontario Reformatory	3 "	2,535.84
Sarnia.....	16 "	491,410.68	Prison Brick Yard...	3 "	817.44
Scarboro twp.....	14 "	140,503.65	Toronto Trans. Com.	16 "	156,879.96
Seaforth.....	21 "	50,816.21	Sandwich, Windsor & Amherstburg Ry. Co.	15 "	156,050.95
Simcoe.....	17 "	79,708.11			
Springfield.....	15 "	7,578.08			
Stamford twp.....	16 "	75,615.78			
Stouffville.....	14 "	12,636.48			
Stratford.....	21 "	485,791.38			
			Totals Municipalities		\$35,468,474.33

NIAGARA SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Rural power district*	Period of years ending Oct. 31, 1937	Amount	Rural power district*	Period of years ending Oct. 31, 1937	Amount
		\$ c.			\$ c.
Acton R.P.D.....	10 years	1,018.06	Lynden R.P.D.....	16 years	15,113.13
Ailsa Craig R.P.D.....	8 "	542.39	Markham R.P.D.....	15 "	30,126.85
Alvinston R.P.D.....	9 "	471.99	Merlin R.P.D.....	9 "	14,055.51
Amherstburg R.P.D....	14 "	42,969.48	Milton R.P.D.....	13 "	12,529.43
Aylmer R.P.D.....	16 "	24,770.12	Milverton R.P.D.....	11 "	5,943.68
Ayr R.P.D.....	12 "	3,531.26	Mitchell R.P.D.....	12 "	14,145.88
Baden R.P.D.....	16 "	24,789.00	Newmarket R.P.D....	14 "	17,755.52
Beamsville R.P.D.....	15 "	68,871.65	Niagara R.P.D.....	16 "	30,903.30
Belle River R.P.D.....	15 "	19,895.29	Norwich R.P.D.....	13 "	28,843.87
Blenheim R.P.D.....	14 "	12,268.08	Oil Springs R.P.D....	12 "	4,338.79
Bond Lake R.P.D.....	14 "	57,507.49	Palmerston R.P.D....	11 "	4,018.15
Bothwell R.P.D.....	14 "	11,323.53	Petrolia R.P.D.....	15 "	2,719.36
Brampton R.P.D.....	14 "	9,379.59	Preston R.P.D.....	16 "	59,980.32
Brant R.P.D.....	16 "	31,624.93	Ridgetown R.P.D....	16 "	29,072.08
Brigden R.P.D.....	11 "	5,461.55	St. Jacobs R.P.D....	15 "	18,335.33
Burford R.P.D.....	11 "	10,452.70	St. Marys R.P.D....	10 "	18,654.87
Caledonia R.P.D.....	13 "	20,766.58	St. Thomas R.P.D....	15 "	43,818.29
Chatham R.P.D.....	16 "	34,800.30	Saltfleet R.P.D.....	16 "	67,208.68
Chippawa R.P.D.....	16 "	10,035.13	Sandwich R.P.D.....	16 "	75,816.01
Clinton R.P.D.....	10 "	11,139.47	Sarnia R.P.D.....	15 "	41,362.31
Delaware R.P.D.....	15 "	27,112.72	Scarboro R.P.D.....	14 "	23,282.76
Dorchester R.P.D.....	16 "	33,402.74	Seaford R.P.D.....	10 "	3,890.89
Dresden R.P.D.....	10 "	2,964.27	Simcoe R.P.D.....	15 "	15,220.24
Drumbo R.P.D.....	16 "	11,451.59	Stamford R.P.D.....	16 "	9,989.15
Dundas R.P.D.....	16 "	37,940.86	Stratford R.P.D.....	14 "	13,855.80
Dunnville R.P.D.....	10 "	2,750.88	Strathroy R.P.D....	11 "	8,435.29
Dutton R.P.D.....	12 "	8,378.75	Streetsville R.P.D....	15 "	24,804.13
Elmira R.P.D.....	12 "	4,337.44	Tavistock R.P.D.....	15 "	14,492.88
Elora R.P.D.....	12 "	9,607.52	Thamesville R.P.D....	10 "	9,150.24
Essex R.P.D.....	13 "	18,427.93	Tilbury R.P.D.....	14 "	12,118.69
Exeter R.P.D.....	15 "	23,925.49	Tillsonburg R.P.D....	14 "	33,978.02
Forest R.P.D.....	11 "	4,359.99	Wallaceburg R.P.D....	15 "	21,448.99
Galt R.P.D.....	16 "	11,663.68	Walsingham R.P.D....	11 "	16,942.34
Georgetown R.P.D....	13 "	10,332.21	Walton R.P.D.....	13 "	8,940.20
Goderich R.P.D.....	13 "	8,238.72	Waterdown R.P.D....	15 "	40,735.22
Grantham R.P.D.....	13 "	35,334.66	Waterford R.P.D....	14 "	12,958.10
Guelph R.P.D.....	13 "	22,705.99	Watford R.P.D.....	8 "	1,907.06
Haldimand R.P.D.....	13 "	13,509.89	Welland R.P.D.....	8 "	92,374.35
Harriston R.P.D.....	8 "	1,940.52	Woodbridge R.P.D....	15 "	50,423.17
Harrow R.P.D.....	14 "	24,506.98	Woodstock R.P.D....	16 "	42,140.74
Ingersoll R.P.D.....	16 "	29,073.51	Total—Rural power districts...		\$ 1,953,233.20
Jordan R.P.D.....	16 "	16,090.65	Total—Municipalities.....		\$35,468,474.33
Keswick R.P.D.....	14 "	29,770.56	Total—Rural power districts...		1,953,233.20
Kingsville R.P.D.....	14 "	56,203.89	Grand total.....		\$37,421,707.53
Listowel R.P.D.....	11 "	11,140.36			
London R.P.D.....	15 "	98,245.36			
Lucan R.P.D.....	12 "	6,367.83			

*For townships included in rural power districts see "Cost of Power" statement preceding.

NIAGARA SYSTEM—RURAL LINES

Statement showing Interest, Depreciation and Obsolescence, Contingencies and Sinking Fund charged by the Commission to the Municipalities which operate the respective rural lines for the year ending October 31, 1937

Operated by	Capital cost	Interest	Provision for depreciation and obsolescence	Provision for contingencies	Provision for sinking fund	Total interest depreciation and obsolescence, contingencies and sinking fund charged
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Milton.....	440.82	21.86	8.82	4.41	7.93	43.02
Welland.....	19,617.60	823.94	392.35	196.18	353.12	1,765.59
Totals.....	20,058.42	845.80	401.17	200.59	361.05	1,808.61

NIAGARA SYSTEM—RURAL LINES

Statement showing the total Sinking Fund in respect of each line, together with interest allowed thereon to October 31, 1937

Lines operated by	Period of years ending October 31, 1937	Amount
		\$ c.
Milton.....	24 years	290.41
Welland.....	25 "	13,915.80
Total.....		14,206.21

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Oct. 31 1936	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alliston.....	55.00	51.00	98,973.61	267.5	553.46	3,888.44	4,471.68
Arthur.....	67.50	67.00	68,037.17	140.4	290.49	3,041.99	3,050.70
Barrie.....	32.50	32.50	585,696.22	2,543.3	5,262.07	24,995.90	25,993.94
Beaverton.....	40.00	40.00	54,015.25	204.0	422.08	2,970.13	2,401.58
Beeton.....	71.50	66.00	49,287.88	96.8	200.28	1,885.97	2,238.46
Bradford.....	58.00	55.00	69,249.81	179.1	370.56	3,183.60	3,082.54
Brechin.....	48.50	48.50	17,300.64	49.7	102.83	957.73	771.90
Cannington.....	40.50	40.50	41,446.53	150.8	312.00	2,204.00	1,843.77
Chatsworth.....	43.00	45.00	18,104.06	67.5	139.66	906.36	805.12
Chesley.....	35.50	35.50	131,587.16	504.0	1,042.77	5,269.70	5,848.07
Coldwater.....	36.50	36.50	78,652.97	321.5	665.18	3,318.89	3,472.55
Collingwood.....	39.00	39.00	319,802.56	1,228.0	2,540.73	14,382.71	14,445.22
Cookstown.....	50.00	50.00	20,695.46	60.0	124.14	995.58	921.46
Creemore.....	54.50	53.00	37,170.74	103.2	213.52	1,890.61	1,662.31
Dundalk.....	37.00	37.00	41,242.96	161.3	333.73	2,268.00	1,832.86
Durham.....	40.50	39.00	87,115.59	312.0	645.53	4,586.93	3,878.27
Elmvale.....	39.50	39.50	39,925.66	153.3	317.18	2,086.40	1,775.30
Elmwood.....	42.50	42.50	16,521.29	58.2	120.42	826.06	735.14
Flesherton.....	45.50	45.50	23,873.00	79.7	164.90	1,378.83	1,063.29
Grand Valley.....	53.00	53.00	41,638.93	112.6	232.97	2,012.45	1,863.48
Gravenhurst.....	25.00	25.00	139,278.92	783.9	.....	6,370.63	6,149.51
Hanover.....	32.00	32.00	243,037.09	1,028.4	2,127.76	9,726.75	10,781.60
Holstein.....	90.00	80.00	9,581.16	16.0	33.10	639.84	429.58
Huntsville.....	28.00	28.00	195,245.38	922.6	.....	8,832.34	8,667.06
Kincardine.....	46.50	46.50	211,766.68	608.4	1,258.78	7,694.44	9,457.76
Kirkfield.....	56.00	56.00	10,923.86	24.3	50.28	383.01	488.63
Lucknow.....	53.50	53.50	86,719.23	221.9	459.11	3,507.97	3,933.04
Markdale.....	37.00	37.00	42,249.72	172.0	355.87	2,251.76	1,876.42
Meaford.....	40.50	40.50	156,708.53	530.4	1,097.40	6,802.00	6,868.93
Midland.....	31.50	31.50	581,716.15	2,555.4	5,287.10	24,013.32	25,823.74
Mildmay.....	48.50	47.00	30,418.93	90.8	187.86	1,187.39	1,358.02
Mount Forest.....	46.00	44.00	126,351.55	414.5	857.60	6,757.99	5,631.31
Neustadt.....	67.50	65.00	13,838.79	29.9	61.86	564.45	620.92
Orangeville.....	45.00	44.00	191,850.38	586.3	1,213.05	8,465.85	8,576.90
Owen Sound.....	32.00	32.00	834,624.85	3,635.9	7,522.67	36,361.95	37,015.30
Paisley.....	54.00	54.00	48,720.69	117.9	243.93	1,733.21	2,099.52
Penetanguishene.....	36.50	36.50	180,238.53	690.4	1,428.43	7,434.62	8,017.86
Port Elgin.....	38.00	39.00	98,284.29	308.1	637.46	3,755.06	4,389.06
Port McNicoll.....	37.00	37.00	21,564.38	76.4	158.07	819.58	960.31
Port Perry.....	47.50	46.50	83,426.79	241.8	500.28	3,492.52	3,721.94

SYSTEM

G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,479.28	330.29	802.50	1,043.71	75.59	12,644.95	13,824.37	1,179.42
1,088.37	220.93	421.20	712.05	39.67	8,865.40	9,420.30	554.90
6,740.26	2,150.58	7,629.90	6,067.10	718.68	79,558.43	82,656.40	3,097.97
680.99	196.25	612.00	560.54	57.65	7,901.22	8,158.30	257.08
810.28	159.07	290.40	522.47	27.35	6,134.28	6,475.79	341.51
1,029.69	230.33	537.30	719.48	50.61	9,204.11	9,936.46	732.35
248.73	62.21	149.10	180.16	14.04	2,486.70	2,412.41	(74.29)
533.75	150.27	452.40	430.34	42.61	5,969.14	6,106.35	137.21
229.97	70.43	202.50	187.92	19.07	2,561.03	3,012.81	451.78
1,644.65	497.94	1,512.00	1,364.96	142.42	17,322.51	17,890.24	567.73
934.79	296.29	964.50	810.50	90.85	10,553.55	11,734.05	1,180.50
4,094.26	1,195.23	3,684.00	3,371.57	347.00	44,060.72	47,892.95	3,832.23
295.65	75.70	180.00	215.07	16.95	2,824.55	2,999.54	174.99
542.83	130.01	309.60	387.99	29.16	5,166.03	5,500.04	334.01
509.17	153.76	483.90	427.80	45.58	6,054.80	5,969.60	(85.20)
1,132.50	326.21	936.00	905.20	88.16	12,498.80	12,253.15	(245.65)
498.70	151.47	459.90	414.36	43.32	5,746.63	6,056.88	310.25
216.44	66.15	174.60	171.58	16.45	2,326.84	2,475.23	148.39
321.46	85.24	239.10	248.18	22.52	3,523.52	3,625.93	102.41
614.34	143.26	337.80	434.94	31.82	5,671.06	5,967.76	296.70
1,251.89	530.69	2,351.70	1,435.32	221.51	18,311.25	19,598.45	1,287.20
2,845.52	938.43	3,085.20	2,516.47	290.60	32,312.33	32,907.27	594.94
160.35	28.73	48.00	100.27	4.52	1,444.39	1,308.26	(136.13)
2,107.09	700.06	2,767.80	2,022.94	260.70	25,357.99	25,831.75	473.76
3,048.52	715.14	1,825.20	2,207.48	171.92	26,379.24	28,288.62	1,909.38
170.92	35.71	72.90	114.05	6.87	1,322.37	1,357.96	35.59
1,326.23	296.43	665.70	917.99	62.70	11,169.17	11,872.93	703.76
508.35	153.25	516.00	437.96	48.60	6,148.21	6,362.12	213.91
2,047.56	541.23	1,591.20	1,603.24	149.88	20,701.44	21,481.16	779.72
6,642.06	2,078.84	7,666.20	6,027.38	722.10	78,260.77	80,493.75	2,233.01
431.26	109.60	272.40	316.97	25.65	3,889.15	4,288.27	399.12
1,716.88	433.41	1,243.50	1,314.37	117.13	18,072.19	18,385.48	313.29
219.03	44.32	89.70	144.93	8.45	1,753.66	1,953.25	199.59
2,699.60	659.96	1,758.90	2,001.88	165.67	25,541.81	25,898.91	357.10
9,571.33	3,031.70	10,907.70	8,639.52	1,027.42	114,077.59	116,349.04	2,271.45
709.01	160.98	353.70	490.04	33.32	5,823.71	6,364.35	540.64
2,255.98	642.83	2,071.20	1,871.40	195.09	23,917.41	25,200.73	1,283.32
1,366.29	339.04	924.30	1,024.43	87.06	12,522.70	11,963.70	(559.00)
282.03	84.14	229.20	224.14	21.59	2,779.06	2,824.92	45.86
1,195.23	278.03	725.40	868.72	68.33	10,850.45	11,287.24	436.79

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Share of operating		
	To Oct. 31 1936	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Priceville.....	60.00	60.00	4,258.19	14.8	30.62	321.70	189.64
Ripley.....	70.00	70.00	29,178.29	55.2	114.21	1,231.87	1,321.50
Rosseau.....	90.50	88.00	27,631.81	37.2	.....	980.67	1,240.85
Shelburne.....	42.00	42.00	66,786.46	223.3	462.01	3,272.45	2,983.21
Southampton.....	38.00	39.00	77,267.81	247.5	512.08	2,953.52	3,450.28
Stayner.....	40.00	40.00	54,459.73	206.5	427.25	2,836.80	2,427.67
Sunderland.....	54.00	54.00	26,613.67	67.4	139.45	1,477.49	1,171.47
Tara.....	42.50	42.50	28,116.68	94.6	195.73	1,224.89	1,252.19
Teeswater.....	52.50	52.50	45,098.92	119.8	247.87	1,914.36	2,016.28
Thornton.....	60.50	60.50	11,212.26	23.1	47.79	436.51	478.49
Tottenham.....	88.00	83.00	39,795.63	63.2	130.76	1,449.52	1,769.47
Uxbridge.....	48.50	48.50	88,926.02	247.5	512.08	3,735.58	3,969.06
Victoria Harbour.....	40.00	40.00	19,151.66	64.8	134.07	809.86	852.94
Walkerton.....	34.50	34.50	150,443.45	645.6	1,335.74	6,423.02	6,685.30
Waubashene.....	40.00	40.00	21,774.50	85.4	176.69	1,311.82	904.54
Warton.....	61.00	58.00	111,663.62	259.4	536.70	4,012.41	5,044.88
Windermere.....	62.50	60.00	16,085.57	37.2	.....	608.18	719.95
Wingham.....	52.50	52.50	145,882.88	368.1	761.60	4,947.21	6,528.07
Woodville.....	54.00	54.00	21,339.72	55.6	115.04	1,012.77	953.12
Totals—Municipalities.....			6,132,570.26	22,764.4	43,414.80	264,805.59	272,983.96
RURAL POWER DISTRICTS							
Alliston R.P.D.—Essa, Tecumseth and Tossoronto twps.....			33,364.47	99.8	206.49	1,296.57	1,489.71
Arthur R.P.D.—Luther E. and Luther W. twps.....			1,590.11	4.3	8.90	67.10	71.16
Bala R.P.D.—Medora and Wood twps.....			39,660.29	170.9	353.59	1,718.94	1,759.83
Barrie R.P.D.—Innisfil, Oro and Vespria twps.....			95,348.67	346.3	716.49	3,451.37	4,244.10
Baysville R.P.D.—Franklin, Macaulay, McLean, Ridout and Sherbourne twps.....			23,844.93	89.9	.....	854.25	1,060.40
Beaumaris R.P.D.—Macaulay, Medora and Wood, Monck, Muskoka and Watt twps.....			45,920.53	225.5	.....	1,951.30	2,031.52
Beaverton R.P.D.—Brock, Georgina, Mara and Thorah twps.....			51,044.01	182.3	377.18	2,993.93	2,271.31
Beeton R.P.D.—Tecumseth twp.....			2,545.88	5.0	10.34	86.85	115.62
Bradford R.P.D.—Gwillimbury W., King and Tecumseth twps.....			23,786.13	59.3	122.69	876.87	1,059.32
Bruce R.P.D.—Amabel, Brant, Bruce, Carrick, Culross, Greenock and Saugeen twps.....			53,981.60	152.2	314.90	1,878.03	2,374.34

SYSTEM

G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
56.24	16.88	44.40	44.26	4.18	707.92	889.50	181.58
482.02	92.76	165.60	308.44	15.60	3,732.00	3,861.63	129.63
480.12	84.17	111.60	289.62	10.51	3,197.54	3,289.53	91.99
902.53	245.35	669.90	696.29	63.10	9,294.84	9,378.02	83.18
1,064.08	272.35	742.50	805.30	69.94	9,870.05	9,614.79	(255.26)
687.85	204.82	619.50	566.63	58.35	7,828.87	8,259.36	430.49
392.56	88.02	202.20	273.43	19.05	3,763.67	3,639.15	(124.52)
377.20	106.03	283.80	292.27	26.73	3,758.84	4,020.08	261.24
668.54	172.25	359.40	470.60	33.85	5,883.15	6,288.92	405.77
168.68	38.42	69.30	111.68	6.53	1,357.40	1,394.99	37.59
665.57	121.67	189.60	413.00	17.86	4,757.45	5,302.34	544.89
1,294.07	295.83	742.50	926.39	69.94	11,545.45	12,001.27	455.82
256.25	71.05	194.40	199.08	18.31	2,535.96	2,589.96	54.00
1,749.50	560.67	1,936.80	1,560.37	182.43	20,433.83	22,273.97	1,840.14
240.38	79.53	256.20	211.12	24.13	3,204.41	3,415.96	211.55
1,748.60	367.26	778.20	1,177.50	73.30	13,738.85	15,174.48	1,435.63
249.20	55.48	111.60	168.04	10.51	1,922.96	2,236.00	313.04
2,201.69	497.47	1,104.30	1,523.68	104.02	17,668.04	19,323.46	1,655.42
317.97	70.55	166.80	222.46	15.71	2,874.42	3,001.05	126.63
78,204.29	21,934.70	68,293.20	63,715.58	6,432.66	819,784.78	854,341.18	36,036.45 (1,480.05)
472.71	114.56	299.40	347.71	28.20	4,255.35	4,255.35	see page 247
23.46	5.47	12.90	16.60	1.22	206.81	206.81	"
458.74	147.92	512.70	410.75	48.29	5,410.76	5,410.76	"
1,230.20	367.14	1,038.90	990.59	97.86	12,136.65	12,136.65	"
301.01	100.27	269.70	247.50	25.40	2,858.53	2,858.53	"
476.50	183.29	676.50	474.16	63.72	5,856.99	5,856.99	"
664.06	185.40	546.90	530.14	51.51	7,620.43	7,620.43	"
41.85	8.22	15.00	26.99	1.41	306.28	306.28	"
358.08	80.55	177.90	247.25	16.76	2,939.42	2,939.42	"
766.31	188.58	456.60	554.18	43.01	6,575.95	6,575.95	"

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Buckskin R.P.D.—Matchedash, Medora and Wood twps.....	5,615.11	15.7	32.48	192.70	250.61
Cannington R.P.D.—Brock, Eldon and Mariposa twps.....	13,761.27	43.0	88.97	628.44	612.28
Chatsworth R.P.D.—Holland twp....	3,807.46	9.0	18.62	106.64	170.22
Cookstown R.P.D.—Essa, Innisfil and Tecumseth twps.....	448.40	1.3	2.69	17.25	19.98
Creemore R.P.D.—Nottawasaga, Osprey, Sunnidale, Melancthon, Mulumur and Tossorontio twps.....	20,376.96	71.2	147.31	919.78	909.22
Dundalk R.P.D.—Melancthon and Proton twps.....	2,377.92	9.3	19.24	109.61	105.67
Elmvale R.P.D.—Flos, Medonte, Oro, Tiny and Vespra twps.....	20,754.01	72.7	150.42	863.83	924.00
Flesherton R.P.D.—Artemesia twp....	2,863.50	9.6	19.86	132.92	127.54
Gravenhurst R.P.D.—Morrison and Muskoka twps.....	6,089.27	31.8	.....	351.56	269.27
Hawkestone R.P.D.—Medonte, Orillia and Oro twps.....	693.46	119.2	2,621.29	32.93	31.29
Holstein R.P.D.—Bentinck, Egremont and Normanby twps.....	727.12	2.8	5.79	29.42	32.34
Huntsville R.P.D.—Brunel, Chaffey, Franklin, Perry and Sinclair twps....	27,741.50	120.4	.....	1,483.29	1,233.09
Innisfil R.P.D.—Gwillimbury W. and Innisfil twps.....	91,059.44	275.7	570.42	3,287.93	3,966.21
Kirkfield R.P.D.—Bexley, Carden and Eldon twps.....	2,844.38	7.2	14.90	98.44	127.08
Lucknow R.P.D.—Kinloss twp.....	2,019.37	6.0	12.41	81.44	91.67
Mariposa R.P.D.—Brock, Mariposa and Reach twps.....	48,895.49	167.8	347.18	2,062.02	2,176.87
Markdale R.P.D.—Artemesia, Euphrasia, Glenelg and Holland twps....	12,419.85	41.1	85.03	519.19	550.94
Meaford R.P.D.—St. Vincent twp....	3,929.53	13.3	27.52	160.97	172.24
Medonte R.P.D.—Baxter, Gibson and Tay twps.....	16,289.10	60.8	125.80	704.33	703.77
Midland R.P.D.—Flos, Medonte, Tay and Tiny twps.....	35,701.73	137.1	283.66	1,626.45	1,578.55
Minden R.P.D.—Anson and Hindon, Minden and Snowdon twps.....	419.03	35.6	783.74	46.45	4.73
Neustadt R.P.D.—Bentinck and Normanby twps.....	978.77	3.4	7.03	31.34	44.07
Nottawasaga R.P.D.—Nottawasaga twp.....	9,343.27	33.7	69.73	393.64	421.99

SYSTEM

G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
81.57	23.97	47.10	58.49	4.44	691.36	691.36	see page 247
190.57	47.75	129.00	142.91	12.15	1,852.07	1,852.07	"
58.53	16.45	27.00	39.73	2.54	439.73	439.73	"
6.41	1.65	3.90	4.66	0.37	56.91	56.91	"
269.16	74.62	213.60	212.22	20.12	2,766.03	2,766.03	"
29.36	8.87	27.90	24.66	2.63	327.94	327.94	"
272.89	82.99	218.10	215.66	20.54	2,748.43	2,748.43	"
38.48	11.18	28.80	29.77	2.71	391.26	391.26	"
59.57	23.72	95.40	62.85	8.99	871.36	871.36	"
13.87	3.47	357.60	7.30	33.69	3,101.44	3,101.44	"
9.07	2.66	8.40	7.55	0.79	96.02	96.02	"
320.22	102.67	361.20	287.81	34.02	3,822.30	3,822.30	"
1,239.76	314.02	827.10	925.73	77.91	11,209.08	11,209.08	"
42.79	10.00	21.60	29.66	2.03	346.50	346.50	"
29.36	7.20	18.00	21.40	1.70	263.18	263.18	"
649.45	172.72	503.40	508.09	47.42	6,467.15	6,467.15	"
166.93	50.59	123.30	128.59	11.61	1,636.18	1,636.18	"
51.34	13.58	39.90	40.20	3.76	509.51	509.51	"
197.65	62.56	182.40	164.25	17.18	2,157.94	2,157.94	"
441.94	129.42	411.30	368.45	38.74	4,878.51	4,878.51	"
2.10	0.52	106.80	1.10	10.07	955.51	955.51	"
13.15	3.57	10.20	10.29	0.96	120.61	120.61	"
123.67	35.63	101.10	98.49	9.52	1,253.77	1,253.77	"

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Orangeville R.P.D.—Adjala, Albion, Amaranth, Caledon, Erin, Garafraxa E. and Mona twps.....	17,584.42	51.2	105.93	709.75	786.47
Owen Sound R.P.D.—Derby, Keppel, Sarawak, St. Vincent and Sydenham twps.....	14,690.45	62.3	128.90	631.38	651.82
Port Perry R.P.D.—Cartwright, Manvers, Reach and Scugog twps.....	49,504.69	131.4	271.87	1,762.96	2,210.64
Ripley R.P.D.—Huron, Kincardine and Kinloss twps.....	5,835.26	15.4	31.86	229.38	264.30
Sauble R.P.D.—Albemarle, Amabel and Keppel twps.....	13,047.67	30.3	62.69	444.14	589.47
Shelburne R.P.D.—Amaranth, Melancthon and Mulmur twps.....	11,663.25	35.7	73.86	485.73	521.42
South Falls R.P.D.—Draper twp.....	205.55	1.3	.....	9.59	9.05
Sparrow Lake R.P.D.—Matchedash, Morrison, Orillia and Rama twps....	36,284.65	159.6	330.21	1,393.05	1,609.45
Tara R.P.D.—Amabel, Arran, Derby, Keppel and Sullivan twps.....	24,397.48	85.6	177.11	895.15	1,085.91
Thornton R.P.D.—Essa twp.....	8,049.39	15.6	32.28	255.26	344.68
Tottenham R.P.D.—Adjala and Tecumseth twps.....	3,526.19	5.6	11.59	112.71	156.80
Utterson R.P.D.—Brunel, Cardwell, Humphrey, Medora and Wood, Stephenson and Watt twps.....	25,534.50	78.9	.....	896.12	1,139.74
Uxbridge R.P.D.—Brock, Georgina, Reach, Scott and Uxbridge twps....	38,301.04	106.6	220.56	1,469.39	1,709.50
Wasaga Beach R.P.D.—Flos, Nottawasaga, Sunnidale and Tiny twps....	57,993.66	219.9	454.97	2,634.21	2,585.19
Wroxeter R.P.D.—Carrick, Culross, Howick, Morris and Turnberry twps.	54,596.21	129.2	267.31	1,811.38	2,429.92
Totals—Rural power districts.....	1,061,456.97	3,751.8	9,713.81	42,795.98	47,095.30
Totals—Municipalities.....	6,132,570.26	22,764.4	43,414.80	264,805.59	272,983.96
Totals—Rural power districts.....	1,061,456.97	3,751.8	9,713.81	42,795.98	47,095.30
Totals—Companies and local distributing systems.....	507,924.18	1,469.3	3,039.98	23,015.61	22,623.59
	7,701,951.41				
Non-operating capital.....	474,155.81				
Grand totals.....	8,176,107.22	27,985.5	56,168.59	330,617.18	342,702.85

SYSTEM

G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
252.36	61.78	153.60	183.56	14.47	2,267.92	2,267.92	see page 247
171.79	53.89	186.90	152.14	17.60	1,994.42	1,994.42	"
732.87	171.94	394.20	515.97	37.13	6,097.58	6,097.58	"
88.21	20.04	46.20	61.69	4.35	746.03	746.03	"
204.33	46.21	90.90	137.59	8.56	1,583.89	1,583.89	"
164.02	44.15	107.10	121.70	10.09	1,528.07	1,528.07	"
1.57	0.78	3.90	2.11	0.37	27.37	27.37	"
413.33	139.67	478.80	375.65	45.10	4,785.26	4,785.26	"
320.42	94.55	256.80	253.45	24.19	3,107.58	3,107.58	"
123.46	28.33	46.80	80.45	4.41	915.67	915.67	"
58.98	10.78	16.80	36.60	1.58	405.84	405.84	"
356.87	90.83	236.70	266.02	22.30	3,008.58	3,008.58	"
557.37	127.42	319.80	399.00	30.12	4,833.16	4,833.16	"
732.48	218.10	659.70	603.39	62.14	7,950.18	7,950.18	"
834.23	189.97	387.60	567.15	36.51	6,524.07	6,524.07	"
14,113.05	3,879.65	11,255.40	10,992.20	1,060.19	140,905.58	140,905.58	
78,204.29	21,934.70	68,293.20	63,715.58	6,432.66	819,784.78	854,341.18	36,036.45 (1,480.05)
14,113.05	3,879.65	11,255.40	10,922.20	1,060.19	140,905.58	140,905.58	.....
7,266.06	2,378.39	.....	5,280.43	(7,492.85)	56,111.21	56,111.21	.....
99,583.40	28,192.74	79,548.60	79,988.21	.....	1,016,801.57	1,051,357.97	36,036.45 (1,480.05)

GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged to (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
Alliston R.P.D.....	56,036.20	27,766.81	28,269.39	4,255.35
Arthur R.P.D.....	*5,226.92	2,426.69	2,800.23	206.81
Bala R.P.D.....	*114,006.46	55,864.31	58,142.15	5,410.76
Barrie R.P.D.....	160,591.06	80,295.53	80,295.53	12,136.65
Baysville R.P.D.....	82,152.60	41,076.30	41,076.30	2,858.53
Beaumaris R.P.D.....	134,879.10	67,439.55	67,439.55	5,856.99
Beaverton R.P.D.....	*77,249.33	38,278.51	38,970.82	7,620.43
Beeton R.P.D.....	3,043.33	1,521.67	1,521.66	306.28
Bradford R.P.D.....	45,608.03	22,638.95	22,969.08	2,939.42
Bruce R.P.D.....	*94,658.36	45,775.20	48,883.16	6,575.95
Buckskin R.P.D.....	5,748.11	2,874.06	2,874.05	691.36
Cannington R.P.D.....	*22,339.61	9,716.69	12,622.92	1,852.07
Chatsworth R.P.D.....	1,486.53	743.26	743.27	439.73
Cookstown R.P.D.....	1,234.60	617.30	617.30	56.91
Creemore R.P.D.....	*75,951.24	37,078.14	38,873.10	2,766.03
Dundalk R.P.D.....	9,546.76	4,773.38	4,773.38	327.94
Elmvale R.P.D.....	61,384.34	30,559.00	30,825.34	2,748.43
Flesherton R.P.D.....	*7,958.85	3,792.65	4,166.20	391.26
Gravenhurst R.P.D.....	18,159.65	9,079.83	9,079.82	871.36
Hawkestone R.P.D.....	85,112.34	42,556.17	42,556.17	3,101.44
Holstein R.P.D.....	*2,495.24	1,056.18	1,439.06	96.02
Huntsville R.P.D.....	120,743.66	60,371.83	60,371.83	3,822.30
Innisfil R.P.D.....	125,213.26	62,606.63	62,606.63	11,209.08
Kirkfield R.P.D.....	13,286.58	6,643.29	6,643.29	346.50
Lucknow R.P.D.....	*1,145.46	456.00	689.46	263.18
Mariposa R.P.D.....	87,097.48	43,537.38	43,560.10	6,467.15
Markdale R.P.D.....	*31,143.61	15,338.34	15,805.27	1,636.18
Meaford R.P.D.....	11,503.81	5,751.91	5,751.90	509.51
Medonte R.P.D.....	87,656.75	43,828.37	43,828.38	2,157.94
Midland R.P.D.....	95,187.19	47,593.60	47,593.59	4,878.51
Minden R.P.D.....	33,275.33	16,637.66	16,637.67	955.51
Neustadt R.P.D.....	*1,911.01	908.81	1,002.20	120.61
Nottawasaga R.P.D.....	18,160.40	9,080.20	9,080.20	1,253.77
Orangeville R.P.D.....	77,346.54	38,673.27	38,673.27	2,267.92
Owen Sound R.P.D.....	66,177.41	33,088.71	33,088.70	1,994.42
Port Perry R.P.D.....	93,146.66	46,573.33	46,573.33	6,097.58
Ripley R.P.D.....	*21,906.03	10,719.55	11,186.48	746.03
Sauble R.P.D.....	20,075.43	10,037.71	10,037.72	1,583.89
Shelburne R.P.D.....	28,062.53	13,403.44	14,659.09	1,528.07
South Falls R.P.D.....	1,605.24	802.62	802.62	27.37
Sparrow Lake R.P.D.....	113,815.01	56,907.50	56,907.51	4,785.26
Tara R.P.D.....	65,955.94	32,977.97	32,977.97	3,107.58
Thornton R.P.D.....	10,086.30	5,043.15	5,043.15	915.67
Tottenham R.P.D.....	6,474.95	3,237.47	3,237.48	405.84
Utterson R.P.D.....	*79,584.64	38,576.61	41,008.03	3,008.58
Uxbridge R.P.D.....	90,409.17	45,204.59	45,204.58	4,833.16
Wasaga Beach R.P.D.....	98,551.56	.....	98,551.56	7,950.18
Wroxeter R.P.D.....	85,614.85	41,383.93	44,230.92	6,524.07
Total capital.....	2,550,005.46	1,215,314.05	1,334,691.41	
Non-operating capital.....	112,530.73	56,171.32	56,359.41	
Grand totals.....	2,662,536.19	1,271,485.37	1,391,050.82	140,905.58

Note—Items marked * include portions of transmission lines aggregating \$12,399.84 used for purposes of rural power districts.

RURAL POWER DISTRICTS

G.B.—RURAL OPERATING

District, the revenue collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

Distribution costs and fixed charges				Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest	Provision for depreciation and obsolescence	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,825.26	1,058.58	464.27	247.07	7,850.53	7,563.26	.....	287.27
129.14	121.02	49.92	28.24	535.13	570.05	34.92	.....
4,256.61	2,293.15	993.81	535.23	13,489.56	12,567.79	.....	921.77
6,447.41	3,446.80	1,528.00	804.50	24,363.36	24,657.68	294.32	.....
1,318.84	1,730.26	767.04	403.85	7,078.52	8,195.97	1,117.45	.....
4,116.69	2,730.94	1,210.66	637.41	14,552.69	16,631.51	2,078.82	.....
3,327.88	1,665.09	731.23	388.64	13,733.27	12,342.63	.....	1,390.64
88.69	68.37	30.30	15.96	509.60	215.56	.....	294.04
1,302.12	961.97	423.15	224.53	5,851.19	4,631.21	.....	1,219.98
2,976.13	1,804.78	753.43	421.24	12,531.53	12,617.81	86.28	.....
192.69	128.74	57.07	30.05	1,099.91	710.59	.....	389.32
1,405.69	542.08	212.12	126.52	4,138.48	3,565.19	.....	573.29
134.86	33.54	14.87	7.83	630.83	672.44	41.61	.....
61.58	27.85	12.35	6.50	165.19	92.65	.....	72.54
1,875.17	1,286.78	552.50	300.34	6,780.82	5,742.30	.....	1,038.52
310.81	109.13	48.38	25.47	821.73	674.15	.....	147.58
1,492.84	945.00	416.26	220.56	5,823.09	6,272.91	449.82	.....
359.23	149.65	62.60	34.93	997.67	805.38	.....	192.29
409.57	322.07	142.78	75.17	1,820.95	2,075.28	254.33	.....
3,331.49	1,545.89	685.31	360.82	9,024.95	7,491.88	.....	1,533.07
112.84	62.14	23.72	14.50	309.22	255.78	.....	53.44
3,471.58	2,289.60	1,015.01	534.40	11,132.89	8,710.53	.....	2,422.36
3,585.31	2,586.38	1,146.57	603.67	19,131.01	21,864.43	2,733.42	.....
264.31	79.20	35.10	18.49	743.60	483.37	.....	260.23
26.84	28.00	10.08	6.54	334.64	160.27	.....	174.37
2,063.12	1,925.30	853.41	449.37	11,758.35	14,290.08	2,531.73	.....
1,242.98	707.68	309.05	165.18	4,061.07	3,160.66	.....	900.41
256.09	216.69	96.06	50.58	1,128.93	1,118.60	.....	10.33
1,496.55	1,503.57	666.55	350.94	6,175.55	4,443.11	.....	1,732.44
3,038.54	1,922.27	852.17	448.67	11,140.16	9,739.03	.....	1,401.13
1,091.35	301.06	133.47	70.27	2,551.66	2,011.02	.....	540.64
72.59	40.57	17.59	9.47	260.83	243.06	.....	17.77
969.29	399.86	177.26	93.33	2,893.51	2,898.63	5.12	.....
866.38	1,049.22	465.14	244.89	4,893.55	3,726.17	.....	1,167.38
2,278.64	945.25	419.04	220.62	5,857.97	4,424.63	.....	1,433.34
3,098.98	2,046.37	907.18	477.63	12,627.74	13,145.51	517.77	.....
348.17	328.75	141.07	76.74	1,640.76	809.39	.....	831.37
822.04	332.62	147.46	77.64	2,963.65	2,847.59	.....	116.06
788.12	640.10	271.21	149.40	3,376.90	2,234.09	.....	1,142.81
38.17	12.78	5.67	2.98	86.97	80.84	.....	6.13
2,889.51	2,401.14	1,064.45	560.43	11,700.79	12,251.59	550.80	.....
2,608.26	1,160.08	514.28	270.77	7,660.97	6,479.14	.....	1,181.83
239.39	217.18	96.28	50.69	1,519.21	1,044.88	.....	474.33
157.28	93.86	41.61	21.91	720.50	422.35	.....	298.15
2,067.07	1,488.37	635.50	347.39	7,546.91	7,950.47	403.56	.....
2,188.24	2,029.33	899.63	473.65	10,424.01	8,984.42	.....	1,439.59
3,568.07	3,784.08	838.76	883.23	17,024.32	18,926.47	1,902.15	.....
2,266.35	1,850.95	792.08	432.02	11,865.47	12,621.01	755.54	.....
77,278.76	51,414.09	21,731.45	12,000.26	303,330.14	293,423.36	13,757.64	23,664.42

Note—For townships included in rural power districts see “Cost of Power” statement preceding.

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alliston.....	June 1918	1,840.78			1,840.78
Arthur.....	Dec. 1916	607.01			607.01
Barrie.....	April 1913	6,471.91			6,471.91
Beaverton.....	Nov. 1914	561.47			561.47
Beeton.....	Aug. 1918	920.68			920.68
Bradford.....	Oct. 1918	1,120.53			1,120.53
Brechin.....	Jan. 1915	218.54			218.54
Cannington.....	Nov. 1914	294.49			294.49
Chatsworth.....	Dec. 1915		64.65	64.65	
Chesley.....	July 1916	873.81			873.81
Coldwater.....	Mar. 1913	916.08			916.08
Collingwood.....	Mar. 1913	3,081.43			3,081.43
Cookstown.....	May 1918	319.57			319.57
Creemore.....	Nov. 1914	458.93			458.93
Dundalk.....	Dec. 1915	521.48			521.48
Durham.....	Dec. 1915	1,207.57			1,207.57
Elmvale.....	June 1913	203.26			203.26
Elmwood.....	April 1918	187.06			187.06
Flesherton.....	Dec. 1915	276.88			276.88
Grand Valley.....	Dec. 1916	214.51			214.51
Gravenhurst.....	Nov. 1915	1,901.79			1,901.79
Hanover.....	Sept. 1916	2,162.12			2,162.12
Holstein.....	May 1916	543.42			543.42
Huntsville.....	Sept. 1916	992.59			992.59
Kincardine.....	Mar. 1921		532.30	532.30	
Kirkfield.....	June 1920		5.60	5.60	
Lucknow.....	Jan. 1921	525.66			525.66
Markdale.....	Mar. 1916	451.04			451.04
Meaford.....	Jan. 1924	741.43			741.43
Midland.....	July 1911	5,205.84			5,205.84
Mildmay.....	Dec. 1932	426.22			426.22
Mount Forest.....	Dec. 1915	2,862.76			2,862.76
Neustadt.....	Dec. 1918	2,727.56			1,903.17
Orangeville.....	July 1916	1,899.01			1,899.01
Owen Sound.....	Dec. 1915	8,796.72			8,796.72
Paisley.....	Sept. 1923	333.46			333.46
Penetanguishene.....	July 1911	2,442.57			2,442.57
Port Elgin.....	Mar. 1931		338.26	338.26	
Port McNicoll.....	Jan. 1915	224.71			224.71
Port Perry.....	Sept. 1922	1,198.95			1,198.95
Priceville.....	Mar. 1920	115.41			115.41
Ripley.....	Jan. 1921	120.26			120.26
Rosseau.....	July 1931	250.77			250.77
Shelburne.....	July 1916	561.44			561.44
Southampton.....	Feb. 1931		212.46	212.46	

SYSTEM

G.B.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
30.06	1,179.42	.....	1,209.48	.....
10.38	554.90	.....	565.28	.....
109.48	3,097.97	.....	3,207.45	.....
10.64	257.08	.....	267.72	.....
17.08	341.51	.....	358.59	.....
23.22	732.35	.....	755.57	.....
3.86	74.29	.....	70.43
4.84	137.21	.....	142.05	.....
.....	1.32	451.78	.....	450.46	.....
14.36	567.73	.....	582.09	.....
15.16	1,180.50	.....	1,195.66	.....
51.33	3,832.23	.....	3,883.56	.....
5.57	174.99	.....	180.56	.....
9.19	334.01	.....	343.20	.....
9.36	85.20	.....	75.84
21.40	245.65	.....	224.25
3.47	310.25	.....	313.72	.....
3.12	148.39	.....	151.51	.....
5.64	102.41	.....	108.05	.....
3.74	296.70	.....	300.44	.....
33.96	1,287.20	.....	1,321.16	.....
41.47	594.94	.....	636.41	.....
8.76	136.13	.....	127.37
16.53	473.76	.....	490.29	.....
.....	8.93	1,909.38	.....	1,900.45	.....
.....	0.16	35.59	.....	35.43	.....
9.39	703.76	.....	713.15	.....
9.19	213.91	.....	223.10	.....
13.08	779.72	.....	792.80	.....
87.86	2,233.01	.....	2,320.87	.....
8.47	399.12	.....	407.59	.....
52.40	313.29	.....	365.69	.....
82.14	199.59	.....	1,106.12	.....
31.01	357.10	.....	388.11	.....
145.57	2,271.45	.....	2,417.02	.....
5.74	540.64	.....	546.38	.....
42.72	1,283.32	.....	1,326.04	.....
.....	5.86	.....	559.00	.....	564.86
3.72	45.86	.....	49.58	.....
27.45	436.79	.....	464.24	.....
2.39	181.58	.....	183.97	.....
2.39	129.63	.....	132.02	.....
4.29	91.99	.....	96.28	.....
11.14	83.18	.....	94.32	.....
.....	4.03	.....	255.26	.....	259.29

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Stayner.....	Oct. 1913	810.19			810.19
Sunderland.....	Nov. 1914	188.47			188.47
Tara.....	Feb. 1918	205.08			205.08
Teeswater.....	Dec. 1920		11.40	11.40	
Thornton.....	Nov. 1918	169.88			169.88
Tottenham.....	Oct. 1918	572.29			572.29
Uxbridge.....	Sept. 1922	943.20			943.20
Victoria Harbour.....	July 1914		115.48	115.48	
Walkerton.....	Feb. 1931	1,564.07			1,564.07
Waubauskene.....	Dec. 1914	350.02			350.02
Warton.....	May 1931	1,643.86			1,643.86
Windermere.....	June 1930	351.33			351.33
Wingham.....	Dec. 1920		315.33	315.33	
Woodville.....	Nov. 1914	190.92			190.92
Totals—Municipalities.....		61,769.03	1,595.48	1,595.48	60,944.64
RURAL POWER DISTRICTS					
Alliston R.P.D.....	Nov. 1929	3,093.27		31.62	65.00
Arthur R.P.D.....	Dec. 1929	132.41			
Bala R.P.D.....	Jan. 1930		4,539.90	24.96	
Barrie R.P.D.....	Aug. 1923	144.83		160.00	18.85
Baysville R.P.D.....	July 1932		7,119.16	59.73	135.00
Beaumaris R.P.D.....	June 1928	1,055.21		176.63	245.00
Beaverton R.P.D.....	Oct. 1926		8,605.45		107.37
Beeton R.P.D.....	Sept. 1926		1,079.24		
Bradford R.P.D.....	Aug. 1929		5,048.97		195.10
Bruce R.P.D.....	Oct. 1931	2,510.12			29.55
Buckskin R.P.D.....	July 1928		2,433.44		2.02
Cannington R.P.D.....	May 1924	1,853.12		7.83	
Chatsworth R.P.D.....	Dec. 1928		20.86	8.33	
Cookstown R.P.D.....	Dec. 1930	156.91			
Creemore R.P.D.....	Dec. 1930		5,772.99	196.03	
Dundalk R.P.D.....	Jan. 1936		106.70		
Elmvale R.P.D.....	Jan. 1924	1,626.16			16.81
Flesherton R.P.D.....	Feb. 1922		1,909.17	5.00	5.00
Gravenhurst R.P.D.....	June 1929		250.88		0.27
Hawkestone R.P.D.....	Aug. 1930		2,500.56		39.33
Holstein R.P.D.....	Mar. 1929		239.03		
Huntsville R.P.D.....	Aug. 1931		5,040.48		101.76
Innisfil R.P.D.....	Feb. 1928	689.98			208.42
Kirkfield R.P.D.....	June 1937				
Lucknow R.P.D.....	Feb. 1924		84.66		

*For townships included in rural power districts see "Cost of Power" statement preceding.

SYSTEM

G.B.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
14.58		430.49		445.07	
3.88			124.52		120.64
4.20		261.24		265.44	
	0.20	405.77		405.57	
2.83		37.59		40.42	
10.46		544.89		555.35	
15.71		455.82		471.53	
	2.13	54.00		51.87	
26.05		1,840.14		1,866.19	
6.36		211.55		217.91	
33.97		1,435.63		1,469.60	
9.14		313.04		322.18	
	5.39	1,655.42		1,650.03	
3.72		126.63		130.35	
1,122.47	28.02	36,036.45	1,480.05	37,917.92	1,442.68
121.13			287.27	2,893.75	
5.30		34.92		172.63	
	181.40		921.77		5,618.11
12.19		294.32		592.49	
	289.30	1,117.45			6,366.28
32.41		2,078.82		3,098.07	
	346.62		1,390.64		10,450.08
	43.17		294.04		1,416.45
	201.96		1,219.98		6,666.01
100.20		86.28		2,667.05	
	97.34		389.32		2,922.12
74.32		41.61	573.29	1,361.98	
	0.83			28.25	
6.28			72.54	90.65	
	225.80		1,038.52		6,841.28
	4.27		147.58		258.55
64.45		449.82		2,123.62	
	76.57		192.29		2,178.03
	10.05	254.33			6.87
	100.82		1,533.07		4,173.78
	9.56		53.44		302.03
	202.62		2,422.36		7,767.22
26.80		2,733.42		3,241.78	
			260.23		260.23
	3.39		174.37		262.42

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Rural power district*	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Mariposa R.P.D.....	Sept. 1923	14,384.63		55.00	15.28
Markdale R.P.D.....	July 1924		3,208.40	2.77	
Meaford R.P.D.....	Oct. 1928		278.55		4.27
Medonte R.P.D.....	July 1930		2,592.33		97.34
Midland R.P.D.....	Nov. 1930		2,047.27	10.00	62.03
Minden R.P.D.....	Dec. 1935	86.18		14.62	
Neustadt R.P.D.....	Nov. 1926		37.59		
Nottawasaga R.P.D.....	Jan. 1922	2,611.52			4.12
Orangeville R.P.D.....	Aug. 1927		4,286.54	30.32	85.00
Owen Sound R.P.D.....	Mar. 1931		868.46	35.02	10.00
Port Perry R.P.D.....	Dec. 1922		3,949.83		170.87
Ripley R.P.D.....	Feb. 1922		2,557.32		24.22
Sauble R.P.D.....	Oct. 1931		1,895.13	31.55	40.00
Shelburne R.P.D.....	Feb. 1926		5,779.99	115.64	
South Falls R.P.D.....	Jun. 1937				
Sparrow Lake R.P.D.....	Oct. 1925	177.37			247.15
Tara R.P.D.....	Jan. 1925		1,776.82	73.91	50.00
Thornton R.P.D.....	Aug. 1930		2,059.10	42.15	75.00
Tottenham R.P.D.....	April 1936		32.77		
Utterson R.P.D.....	June 1930	1,518.75		20.00	52.35
Uxbridge R.P.D.....	Sept. 1925		10,535.12		211.65
Wasaga Beach R.P.D.....	July 1923	19,408.39		348.55	
Wroxeter R.P.D.....	Feb. 1929		288.84	90.00	39.42
Totals—Rural power districts.....		49,448.85	86,945.55	1,539.66	2,358.18
Totals—Municipalities.....		61,769.03	1,595.48	1,595.48	60,944.64
Totals—Rural power districts.....		49,448.85	86,945.55	1,539.66	2,358.18
Grand totals.....		111,217.88	88,541.03	3,135.14	63,302.82

*For townships included in rural power districts see "Cost of Power" statement preceding.

SYSTEM

G.B.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
577.59		2,531.73		17,533.67	
	128.34		900.41		4,234.38
	11.14		10.33		304.29
	105.89		1,732.44		4,528.00
	81.49		1,401.13		3,581.92
3.45			540.64		436.39
	1.50		17.77		56.86
104.46		5.12		2,716.98	
	174.86		1,167.38		5,683.46
	35.14		1,433.34		2,311.92
	161.59	517.77			3,764.52
	102.69		831.37		3,515.60
	77.41		116.06		2,097.05
	227.60		1,142.81		7,034.76
			6.13		6.13
5.49		550.80		486.51	
	73.07		1,181.83		3,007.81
	85.36		474.33		2,651.64
	1.31		298.15		332.23
61.55		403.56		1,951.51	
	425.20		1,439.59		12,611.56
785.74		1,902.15		22,444.83	
	7.95	755.54		509.33	
1,981.36	3,494.24	13,757.64	23,664.42	61,913.10	111,647.98
1,122.47	28.02	36,036.45	1,480.05	37,917.92	1,442.68
1,981.36	3,494.24	13,757.64	23,664.42	61,913.10	111,647.98
3,103.83	3,522.26	49,794.09	25,144.47	99,831.02	113,090.66

GEORGIAN BAY SYSTEM

G.B.—SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Municipality	Period of years ending Oct. 31, 1937	Amount	Municipality	Period of years ending Oct. 31, 1937	Amount
		\$ c.			\$ c.
Alliston.....	14 years	17,703.35	Stayner.....	19 years	12,943.81
Arthur.....	16 "	15,739.92	Sunderland.....	18 "	8,423.71
Barrie.....	19 "	113,723.29	Tara.....	14 "	6,734.91
Beaverton.....	18 "	16,837.64	Teeswater.....	13 "	9,586.49
Beeton.....	14 "	12,672.24	Thornton.....	14 "	2,662.05
Bradford.....	14 "	14,428.01	Tottenham.....	14 "	8,427.27
Brechin.....	18 "	6,428.21	Uxbridge.....	13 "	13,722.60
Cannington.....	18 "	12,730.55	Victoria Harbour....	18 "	5,278.78
Chatsworth.....	17 "	3,432.20	Walkerton.....	7 "	10,825.61
Chesley.....	16 "	28,495.72	Waubashene.....	18 "	3,138.64
Coldwater.....	19 "	11,725.59	Wiarton.....	7 "	8,754.09
Collingwood.....	19 "	111,159.57	Windermere.....	8 "	1,660.73
Cookstown.....	14 "	4,137.43	Wingham.....	13 "	28,052.12
Creemore.....	18 "	9,592.55	Woodville.....	18 "	8,298.89
Dundalk.....	17 "	9,722.37	Total—Municipalities.....		\$ 1,301,000.37
Durham.....	17 "	25,283.16	RURAL POWER DISTRICTS		
Elmvale.....	19 "	12,445.69	Alliston R.P.D.....	8 years	4,574.80
Elmwood.....	14 "	3,211.63	Arthur R.P.D.....	8 "	327.03
Flesherton.....	17 "	5,409.34	Bala R.P.D.....	8 "	6,078.48
Grand Valley.....	16 "	9,606.44	Barrie R.P.D.....	15 "	14,690.99
Gravenhurst.....	17 "	20,468.95	Baysville R.P.D.....	6 "	3,492.15
Hanover.....	16 "	65,836.77	Beaumaris R.P.D....	10 "	8,287.41
Holstein.....	16 "	2,160.65	Beaverton R.P.D....	12 "	6,715.08
Huntsville.....	16 "	45,793.73	Beeton R.P.D.....	12 "	289.66
Kincardine.....	13 "	31,664.72	Bradford R.P.D.....	9 "	2,966.93
Kirkfield.....	13 "	2,554.26	Bruce R.P.D.....	7 "	5,487.21
Lucknow.....	13 "	15,007.73	Bucks skin R.P.D....	10 "	964.42
Markdale.....	16 "	7,906.55	Cannington R.P.D..	14 "	4,379.63
Meaford.....	13 "	21,886.41	Chatsworth R.P.D..	9 "	511.53
Midland.....	19 "	176,453.92	Cookstown R.P.D..	7 "	64.41
Mildmay.....	5 "	1,639.82	Creemore R.P.D....	7 "	3,210.46
Mount Forest.....	17 "	24,969.87	Dundalk R.P.D.....	2 "	94.71
Neustadt.....	14 "	5,433.59	Elmvale R.P.D.....	14 "	4,021.82
Orangeville.....	16 "	33,910.91	Flesherton R.P.D... Gravenhurst R.P.D. Hawkestone R.P.D.	16 " 9 " 8 "	815.37 1,107.13 2,342.67
Owen Sound.....	17 "	158,806.78	Holstein R.P.D.....	9 "	83.01
Paisley.....	13 "	8,500.33	Huntsville R.P.D....	7 "	3,267.15
Penetanguishene.....	21 "	50,829.08	Innisfil R.P.D.....	10 "	11,630.71
Port Elgin.....	7 "	6,380.58	Kirkfield R.P.D.....	1 "	49.58
Port McNicoll.....	18 "	4,976.53	Lucknow R.P.D.....	12 "	74.42
Port Perry.....	13 "	12,977.59			
Priceville.....	13 "	746.34			
Ripley.....	13 "	5,960.98			
Rosseau.....	7 "	2,260.22			
Shelburne.....	16 "	15,107.81			
Southampton.....	7 "	5,771.65			

Note—For townships included in rural power districts see "Cost of Power" statement preceding.

GEORGIAN BAY SYSTEM

G.B.—SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Rural power district*	Period of years ending Oct. 31, 1937	Amount	Rural power district*	Period of years ending Oct. 31, 1937	Amount
		\$ c.			\$ c.
Mariposa R.P.D.....	15 years	11,901.88	Sparrow Lake R.P.D.	13 years	8,185.31
Markdale R.P.D.....	14 "	2,110.31	Tara R.P.D.....	13 "	4,020.86
Meaford R.P.D.....	9 "	230.83	Thornton R.P.D....	8 "	1,018.84
Medonte R.P.D.....	8 "	1,593.58	Tottenham R.P.D...	2 "	62.70
Midland R.P.D.....	7 "	2,392.64	Utterson R.P.D.....	8 "	3,684.36
Minden R.P.D.....	2 "	111.57	Uxbridge R.P.D.....	13 "	8,147.90
Neustadt R.P.D.....	11 "	81.32	Wasaga Beach R.P.D.	15 "	14,296.34
Nottawasaga R.P.D..	16 "	3,620.40	Wroxeter R.P.D....	8 "	8,492.21
Orangeville R.P.D...	11 "	3,301.28			
Owen Sound R.P.D..	7 "	1,281.38	Totals—Rural power districts . . .		\$ 172,081.39
Port Perry R.P.D....	15 "	8,186.41			
Ripley R.P.D.....	12 "	822.49	Totals—Municipalities		\$1,301,000.37
Sauble R.P.D.....	7 "	891.91	Totals—Rural power districts .		172,081.39
Shelburne R.P.D....	12 "	2,114.76			
South Falls R.P.D...	1 "	5.35	Grand total		\$1,473,081.76

Note—For townships included in rural power districts see "Cost of Power" statement preceding.

GEORGIAN BAY SYSTEM—RURAL LINES

Statement showing Interest, Depreciation and Obsolescence, Contingencies and Sinking Fund charged by the Commission to the Municipalities which operate the respective rural lines for the year ending October 31, 1937

Operated by	Capital cost	Interest	Provision for depreciation and obsolescence	Provision for contingencies	Provision for sinking fund	Total interest, depreciation and obsolescence, contingencies and sinking fund charged
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Brechin.....	922.02	48.22	18.44	9.22	16.60	92.48
Flesherton.....	1,928.15	108.17	38.56	19.28	34.71	200.72
Totals . . .	2,850.17	156.39	57.00	28.50	51.31	293.20

GEORGIAN BAY SYSTEM—RURAL LINES

Statement showing the total Sinking Fund paid in respect of each line, together with interest allowed thereon to October 31, 1937

Lines operated by	Period of years ending October 31, 1937	Amount
		\$ c.
Brechin.....	19 years	425.89
Flesherton.....	20 years	779.67
Total.....		1,205.56

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Oct. 31 1936	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alexandria.....	58.50	55.00	80,317.06	180.7	1,189.74	1,602.90	3,603.37
Apple Hill.....	50.50	44.00	12,182.72	39.0	256.78	446.98	543.72
Athens.....	50.50	45.00	29,406.61	89.5	589.27	828.57	1,273.20
Bath.....	72.00	66.00	16,707.83	31.1	204.76	368.64	738.63
Belleville.....	32.00	28.00	911,862.57	4,845.4	31,902.33	33,137.14	38,249.18
Bloomfield.....	52.00	47.00	29,029.00	82.5	543.18	1,378.37	1,264.76
Bowmanville.....	35.00	31.00	438,505.42	2,079.8	13,693.50	15,704.68	18,562.17
Brighton.....	38.00	32.00	55,314.70	245.1	1,613.75	2,066.76	2,352.73
Brockville.....	30.00	26.00	488,275.88	3,101.3	20,419.10	18,734.81	21,441.09
Cardinal.....	34.50	29.00	34,361.99	210.9	1,388.57	1,800.23	1,509.14
Carleton Place.....	33.50	29.00	261,263.96	1,442.8	9,499.46	8,528.84	11,511.02
Chesterville.....	39.50	34.00	45,995.58	216.0	1,422.15	1,730.59	2,035.87
Cobden.....	70.00	65.00	27,043.61	57.4	377.92	1,121.50	1,212.75
Cobourg.....	35.00	31.00	310,362.16	1,508.0	9,928.74	12,568.44	13,114.38
Colborne.....	37.50	33.00	32,137.65	140.2	923.08	1,151.38	1,368.33
Deseronto.....	53.00	45.00	44,557.82	129.2	850.66	1,326.00	1,939.81
Finch.....	55.00	47.00	19,382.73	64.3	423.35	590.72	864.50
Hastings.....	46.50	42.00	25,966.83	85.5	562.94	848.67	1,123.75
Havelock.....	51.00	46.50	48,629.64	134.0	882.26	1,321.43	2,121.49
Kemptville.....	39.00	35.00	75,954.07	333.8	2,197.75	2,366.75	3,367.54
Lakefield.....	44.00	39.00	70,382.54	267.7	1,762.55	2,099.97	3,022.48
Lanark.....	43.00	40.00	22,427.92	80.4	529.36	660.20	998.85
Lancaster.....	71.50	62.00	17,589.34	36.5	240.32	544.76	789.88
Lindsay.....	38.00	34.00	442,001.63	1,997.8	13,153.60	17,585.12	18,775.16
Madoc.....	43.50	40.50	42,721.19	158.5	1,043.57	2,180.15	1,837.37
Marmora.....	43.50	40.50	27,039.29	102.2	672.89	1,005.63	1,161.69
Martintown.....	46.50	43.50	6,989.69	28.2	185.67	476.82	310.53
Maxville.....	55.50	51.00	31,556.80	87.4	575.45	871.83	1,411.71
Napanee.....	35.50	30.00	211,621.26	1,041.3	6,855.97	7,299.81	8,935.10
Newcastle.....	35.50	32.50	25,910.71	114.9	756.51	1,036.69	1,101.97
Norwood.....	40.50	35.50	20,947.79	89.3	587.96	955.36	893.31
Oshawa.....	34.50	30.50	2,825,929.95	13,470.6	88,691.02	98,385.51	119,197.72
Ottawa.....	23.50	20.50	937,257.23	8,884.0	58,492.65	47,036.13	40,381.97
Ottawa.....	.....	.....	964.71	19,036.3	209,398.76	129.28	43.81
Perth.....	31.00	28.00	229,746.40	1,353.3	8,910.19	8,270.61	10,101.57
Peterborough.....	30.00	26.00	1,443,530.38	8,168.5	53,781.76	48,376.95	60,248.31
Pictou.....	44.00	39.50	242,787.95	827.5	5,448.30	9,063.82	10,496.91
Port Hope.....	36.50	32.50	295,916.23	1,471.1	9,685.79	13,831.12	12,482.29
Prescott.....	29.50	26.50	128,556.48	867.1	5,709.02	5,619.14	5,627.00
Richmond.....	55.00	52.00	16,614.72	45.1	296.94	390.27	727.02

SYSTEM

E.O.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,382.45	252.02	632.45	806.18	60.20	9,529.31	10,399.14	869.83
195.34	45.17	136.50	119.75	12.99	1,757.23	1,895.28	138.05
459.47	94.78	313.25	280.70	29.82	3,869.06	4,394.27	525.21
268.32	48.37	108.85	166.22	10.36	1,914.15	2,176.65	262.50
7,972.30	2,858.71	16,958.90	8,083.75	1,614.22	140,776.53	150,122.52	9,345.99
405.90	87.54	288.75	279.88	27.48	4,275.86	4,157.49	(118.37)
4,366.26	1,360.82	7,279.30	3,966.98	692.88	65,626.59	70,659.12	5,032.53
587.31	186.77	857.85	505.80	81.65	8,252.62	8,869.04	616.42
5,935.22	1,866.94	10,854.55	4,469.12	1,033.18	84,754.01	89,776.65	5,022.64
426.11	140.46	738.15	315.76	70.26	6,388.68	6,930.21	541.53
3,466.42	980.07	5,049.80	2,435.28	480.66	41,951.55	46,604.29	4,652.74
652.28	168.07	756.00	437.05	71.96	7,273.97	8,229.54	955.57
470.29	88.23	200.90	94.06	19.12	3,584.77	3,947.84	363.07
3,014.15	988.02	5,278.00	2,796.47	502.38	48,190.58	51,124.95	2,934.37
345.87	108.95	490.70	294.55	46.71	4,729.57	5,090.35	360.78
617.67	161.64	452.20	428.83	43.04	5,819.85	6,558.79	738.94
307.99	65.91	225.05	190.02	21.42	2,688.96	3,395.82	706.86
338.32	84.95	299.25	246.70	28.48	3,533.06	3,870.98	337.92
688.87	152.98	469.00	470.17	44.64	6,150.84	6,679.98	529.14
1,112.16	270.28	1,168.30	726.73	111.20	11,320.71	12,680.93	1,360.22
840.85	215.02	936.95	657.42	89.18	9,624.42	11,440.45	1,816.03
350.55	80.63	281.40	218.57	26.78	3,146.34	3,396.29	249.95
306.56	56.14	127.75	177.22	12.16	2,254.79	2,521.83	267.04
4,610.17	1,334.35	6,992.30	4,029.63	665.56	67,145.89	73,756.83	6,610.94
518.91	137.52	554.75	400.34	52.80	6,725.41	6,771.04	45.63
324.45	94.84	357.70	252.79	34.05	3,904.04	4,366.39	462.35
104.86	26.05	98.70	67.44	9.39	1,279.46	1,287.68	8.22
522.84	104.84	305.90	313.15	29.12	4,134.84	4,756.09	621.25
2,028.21	674.84	3,644.55	1,903.05	346.90	31,688.43	35,317.40	3,628.97
274.90	84.26	402.15	236.90	38.28	3,931.66	3,970.16	38.50
229.88	73.30	312.55	192.66	29.75	3,274.77	3,510.88	236.11
27,827.42	8,486.40	47,147.10	25,455.49	4,487.67	419,678.33	453,033.13	33,354.80
7,726.37	3,883.19	31,094.00	7,924.63	2,959.66	199,498.60	202,231.66	2,733.06
19.29	4.82	.....	10.16	.....	209,606.12	209,606.12	.....
2,945.17	882.30	4,736.55	2,123.00	450.85	38,420.24	40,853.64	2,433.40
11,575.80	4,177.97	28,589.75	12,646.36	2,721.30	222,118.20	235,941.96	13,823.76
3,107.38	713.73	2,896.25	2,299.76	275.68	34,301.83	35,436.73	1,134.90
2,803.36	925.71	5,148.85	2,655.89	490.09	48,023.10	52,118.03	4,094.93
1,497.49	502.91	3,034.85	1,164.26	288.88	23,443.55	24,862.72	1,419.17
269.09	51.58	157.85	161.26	15.02	2,069.03	2,447.55	378.52

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Oct. 31 1936	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Russell.....	61.50	50.00	17,488.91	49.7	327.23	571.65	782.08
Smiths Falls.....	28.00	25.00	284,917.73	1,971.8	12,982.42	11,808.89	12,438.58
Stirling.....	30.00	27.00	43,470.26	247.8	1,631.53	1,739.75	1,813.39
Trenton.....	27.50	24.00	512,021.95	3,179.6	20,934.63	17,336.66	21,189.90
Tweed.....	55.50	52.00	64,583.10	189.8	1,249.65	2,652.14	2,842.94
Warkworth.....	45.50	40.00	19,496.87	67.4	443.76	602.20	841.73
Wellington.....	41.50	38.00	51,929.17	191.0	1,257.55	1,804.99	2,234.19
Westport.....	70.00	62.00	37,159.81	75.0	493.80	637.07	1,669.28
Whitby.....	34.50	30.50	224,018.19	1,060.5	6,982.38	7,769.71	9,486.69
Williamsburg.....	32.50	28.00	28,435.89	167.9	1,105.46	1,365.36	1,250.18
Winchester.....	36.00	31.00	51,138.57	265.6	1,748.72	2,009.30	2,257.24
Totals—Municipalities.....			11,362,410.49	80,610.3	614,804.70	421,740.29	483,548.28
RURAL POWER DISTRICTS							
Alexandria R.P.D.—Hawkesbury E., Kenyon and Lochiel twps....			18,291.14	39.8	262.04	337.62	820.94
Arnprior R.P.D.—Fitzroy, McNab, March and Pakenham twps.....			7,986.89	52.8	347.64	303.53	349.75
Belleville R.P.D.—Huntingdon, Sidney, Thurlow and Tyendinaga twps.....			75,122.72	387.9	2,553.96	2,698.16	3,159.97
Bowmanville R.P.D.—Darlington twp.....			26,151.93	120.6	794.04	965.66	1,109.28
Brighton R.P.D.—Brighton, Cra-mahe and Murray twps.....			5,280.97	23.4	154.07	164.70	224.60
Brockville R.P.D.—Augusta, Eliza-bethtown, Escott Front, Leeds and Lansdowne Front, Leeds and Lansdowne Rear, Yonge and Escott Rear and Yonge Front twps.....			65,757.32	364.4	2,399.23	2,306.54	2,732.49
Campbellford R.P.D.—Rawdon and Seymour twps.....			13,639.44	77.2	508.29	422.98	569.31
Carleton Place R.P.D.—Ramsay twp.....					26.24		
Chesterville R.P.D.—Cambridge, Finch, Mountain, Osgoode, Osna-bruck, Russell, Williamsburg and Winchester twps.....			66,603.19	286.4	1,885.67	2,165.49	2,954.48
Cobourg R.P.D.—Alnwick, Haldi-mand, Hamilton and Hope twps...			62,645.16	299.5	1,971.92	2,144.37	2,650.23

SYSTEM

E.O.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
288.20	57.75	173.95	173.28	16.56	2,390.70	2,903.46	512.76
3,287.32	1,125.08	6,901.30	2,564.72	656.90	51,765.21	53,658.97	1,893.76
344.86	127.30	867.30	380.33	82.55	6,987.01	7,247.84	260.83
3,509.89	1,486.31	11,128.60	4,398.21	1,059.27	81,043.47	84,550.45	3,506.98
904.42	193.42	664.30	628.41	63.23	9,198.51	10,359.90	1,161.39
247.27	62.94	235.90	184.24	22.45	2,640.49	2,973.78	333.29
634.16	160.57	668.50	487.08	63.63	7,310.67	7,718.89	408.22
651.77	121.79	262.50	374.88	24.99	4,236.08	5,082.77	846.69
2,235.96	646.67	3,711.75	2,027.83	353.30	33,214.29	35,428.13	2,213.84
360.68	115.54	587.65	262.68	55.94	5,103.49	5,237.93	134.44
693.68	197.66	929.60	480.34	88.48	8,405.02	9,198.95	793.93
114,054.46	36,816.11	215,509.00	101,965.98	20,513.07	2,008,951.89	2,129,551.49	120,717.97 (118.37)
316.51	58.52	139.30	183.89	13.26	2,132.08	2,132.08	see page 265
95.37	29.25	184.80	45.44	17.59	1,373.37	1,373.37	"
681.34	239.53	1,357.65	669.85	129.23	11,489.69	11,489.69	"
267.68	82.54	422.10	237.66	40.18	3,919.14	3,919.14	"
56.07	17.83	81.90	48.28	7.80	755.25	755.25	"
791.25	239.66	1,275.40	574.54	121.40	10,440.51	10,440.51	"
109.38	42.27	270.20	119.50	25.72	2,067.65	2,067.65	"
.....	.....	.....	.....	.....	26.24	26.24	"
977.21	241.85	1,002.40	638.64	95.42	9,961.16	9,961.16	"
618.72	201.12	1,048.25	565.98	99.78	9,300.37	9,300.37	"

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Colborne R.P.D. —Cramahe and Haldimand twps.	28,612.12	119.1	784.16	859.92	1,221.96
Fenelon Falls R.P.D. —Bexley, Fenelon, Laxton, Digby, Longford, Ops, Somerville and Verulam twps.	46,044.83	190.0	1,250.97	1,679.33	1,967.64
Iroquois R.P.D. —Gower S., Mattilda, Mountain, Oxford, Williamsburg and Winchester twps.	60,980.59	483.1	3,180.75	2,567.47	2,651.30
Kemptville R.P.D. —Oxford twp. . .	6,519.83	26.7	175.79	277.52	289.53
Kingston R.P.D. —Bedford, Ernestown, Hinchinbrooke, Kingston, Leeds and Lansdowne Front, Leeds and Lansdowne Rear, Loughborough, Oso, Pittsburgh, Portland and Storrington twps.	112,585.80	554.2	4,950.81	3,513.94	4,597.95
Lakefield R.P.D. —Burleigh and Anstruther, Douro, Harvey and Smith twps.	15,939.94	68.3	449.69	452.82	679.53
Marmora R.P.D. —Marmora and Lake twps.	767.26	2.9	19.09	21.30	32.97
Martintown R.P.D. —Charlottenburg and Lancaster twps.	21,902.06	78.5	516.85	921.17	975.41
Maxville R.P.D. —Caledonia, Kenyon, Plantagenet N., Plantagenet S. and Roxborough twps.	74,989.99	216.7	1,426.76	1,852.85	3,352.58
Millbrook R.P.D. —Cavan, Manvers and Monaghan S. twps.	15,462.87	53.8	354.22	551.13	667.29
Napanee R.P.D. —Adolphustown, Camden E., Ernestown, Fredericksburg N., Fredericksburg S., Hungerford, Portland, Richmond, Sheffield and Tyendinaga twps.	63,894.27	263.8	1,736.87	1,709.00	2,730.67
Nepean R.P.D. —Clarence, Cumberland, Gloucester, Goulburn, Gower N., March, Marlborough, Nepean and Osgoode twps.	103,898.01	785.7	5,173.08	4,028.28	4,238.27
Newcastle R.P.D. —Clarke, Darlington and Manvers twps.	18,577.37	71.9	473.39	555.72	796.93
Norwood R.P.D. —Asphodel, Belmont and Methuen, Dummer, Percy and Seymour twps.	12,305.37	38.5	253.49	463.40	533.84
Omeme R.P.D. —Emily and Ops twps.	1,275.71	5.0	32.92	34.55	54.69

SYSTEM

E.O.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
320.05	99.10	416.85	264.03	39.68	4,005.75	4,005.75	see page 265
518.61	145.48	665.00	425.44	63.30	6,715.77	6,715.77	"
621.30 97.84	236.31 23.84	1,690.85 93.45	536.51 62.81	160.94 8.89	11,645.43 1,029.67	11,645.43 1,029.67	" "
1,111.90	336.65	1,745.10	985.33	166.11	17,407.79	17,407.79	"
174.19	46.87	239.05	146.50	22.75	2,211.40	2,211.40	"
9.21	2.69	10.15	7.17	0.97	103.55	103.55	"
340.78	77.54	274.75	213.45	26.15	3,346.10	3,346.10	"
1,231.30	257.16	758.45	742.22	72.19	9,693.51	9,693.51	"
195.35	53.10	188.30	146.00	17.92	2,173.31	2,173.31	"
719.51	203.99	923.30	590.40	87.89	8,701.63	8,701.63	"
976.99	414.05	2,749.95	855.47	261.75	18,697.84	18,697.84	"
219.30	61.88	251.65	173.13	23.95	2,555.95	2,555.95	"
164.60	40.94	134.75	117.54	12.83	1,721.39	1,721.39	"
14.93	4.26	17.50	11.88	1.67	172.40	172.40	"

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Oshawa R.P.D. —Darlington, Pickering, Uxbridge, Whitby and Whitby E. twps.....	194,161.41	911.6	6,002.02	8,578.81	8,207.57
Perth R.P.D. —Bathurst, Burgess N., Crosby N., Dalhousie and Sherbrooke N., Drummond, Elmsley N. and Elmsley S. twps.....	11,570.61	49.1	323.28	381.22	513.41
Peterborough R.P.D. —Cavan, Douro, Monaghan N., Monaghan S., Otonabee and Smith twps.....	118,280.79	640.3	4,215.76	4,536.55	4,955.54
Prescott R.P.D. —Augusta, Edwardsburg, and Matilda twps.....	23,916.56	149.7	985.64	1,532.38	1,049.68
Renfrew R.P.D. —Admaston, Bromley, Horton, Ross and Westmeath twps.....	23,421.34	70.4	463.52	993.83	1,044.75
Smiths Falls R.P.D. —Bastard and Burgess S., Crosby S., Kitley, Montague and Wolford twps.....	46,432.66	230.9	1,520.26	1,452.22	2,051.55
Stirling R.P.D. —Rawdon and Sidney twps.....	9,975.40	52.1	343.03	484.76	419.22
Sulphide R.P.D. —Hungerford twp.	1,363.55	4.6	30.29	75.43	59.76
Trenton R.P.D. —Brighton, Murray and Sidney twps.....	21,568.98	116.2	765.07	767.24	904.16
Warkworth R.P.D. —Brighton, Percy and Seymour twps.....	1,441.10	6.6	43.45	42.71	61.15
Wellington R.P.D. —Ameliasburg, Athol, Hallowell, Hillier, Marysburgh S., Murray and Sophiasburg twps.....	74,579.51	268.1	1,765.18	2,633.50	3,213.51
Williamsburg R.P.D. —Matilda, Osnabruk, Williamsburg and Winchester twps.....	14,531.28	85.8	564.91	620.43	638.87
Totals—Rural power districts.....	1,466,477.97	7,195.6	48,704.35	53,096.53	62,480.78
Totals—Municipalities.....	11,362,410.49	80,610.3	614,804.70	421,740.29	483,548.28
Totals—Rural power districts.....	1,466,477.97	7,195.6	48,704.35	53,096.53	62,480.78
Totals—Companies.....	5,054,929.17	26,186.7	172,779.37	173,515.44	216,634.97
Totals—Local electric distribution systems.....	569,037.09	1,906.1	12,549.84	42,539.04	24,980.99
Totals—Local gas distribution system.....	26,413.01	.....	.....	15,216.86	1,199.62
Totals—Pulp mill.....	347,555.52	1,763.0	11,607.67	12,219.04	14,723.34
Non-operating capital.....	18,826,823.25 105,998.23	.....	.....	.....	.....
Grand totals.....	18,932,821.48	117,661.7	860,445.93	718,327.20	803,567.98

SYSTEM

E.O.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
1,945.28	578.66	3,190.60	1,755.36	303.69	30,561.99	30,561.99	see page 265
171.55	48.12	171.85	111.08	16.36	1,736.87	1,736.87	"
1,009.93	352.91	2,241.05	1,045.29	213.31	18,570.34	18,570.34	"
292.97	95.47	523.95	219.14	49.87	4,749.10	4,749.10	"
381.86	77.86	246.40	90.12	23.45	3,321.79	3,321.79	"
646.94	192.00	808.15	438.28	76.92	7,186.32	7,186.32	"
89.21	30.95	182.35	88.76	17.36	1,655.64	1,655.64	"
17.89	4.18	16.10	13.11	1.53	218.29	218.29	"
185.41	68.67	406.70	190.81	38.72	3,326.78	3,326.78	"
14.86	4.99	23.10	13.11	2.20	205.57	205.57	"
924.25	233.71	938.35	701.65	89.32	10,499.47	10,499.47	"
184.32	59.04	300.30	134.23	28.58	2,530.68	2,530.68	"
16,493.86	4,902.99	24,990.00	13,162.60	2,378.68	226,209.79	226,209.79	"
114,054.46	36,816.11	215,509.00	101,965.98	20,513.07	2,008,951.89	2,129,551.49	120,717.97 (118.37)
16,493.86	4,902.99	24,990.00	13,162.60	2,378.68	226,209.79	226,209.79	.....
51,498.65	16,034.32	.....	52,553.94	(32,307.55)	650,709.14	650,709.14	.....
8,131.39	1,303.62	.....	2,289.39	16,449.86	108,244.13	108,244.13	.....
.....	.....	.....	.....	(2,546.46)	13,870.02	13,870.02	.....
2,168.00	881.63	.....	2,555.50	(4,487.60)	39,667.58	39,667.58	.....
192,346.36	59,938.67	240,499.00	172,527.41	.....	3,047,652.55	3,168,252.15	120,717.97 (118.37)

EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Alexandria R.P.D.....	53,548.07	26,610.15	26,937.92	2,132.08
Arnprior R.P.D.....	19,544.23	9,528.48	10,015.75	1,373.37
Belleville R.P.D.....	205,950.85	102,267.73	103,683.12	11,489.69
Bowmanville R.P.D.....	68,536.28	34,268.14	34,268.14	3,919.14
Brighton R.P.D.....	22,974.75	11,487.38	11,487.37	755.25
Brockville R.P.D.....	*264,839.21	128,708.02	136,131.19	10,440.51
Campbellford R.P.D.....	54,690.70	27,345.35	27,345.35	2,067.65
Carleton Place R.P.D.....	1,559.43	779.71	779.72	26.24
Chesterville R.P.D.....	*171,559.35	82,857.02	88,702.33	9,961.16
Cobourg R.P.D.....	248,805.13	123,666.35	125,138.78	9,300.37
Colborne R.P.D.....	84,074.95	42,037.48	42,037.47	4,005.75
Fenelon Falls R.P.D.....	157,327.33	78,204.32	79,123.01	6,715.77
Iroquois R.P.D.....	198,284.21	98,798.75	99,485.46	11,645.43
Kemptville R.P.D.....	11,989.89	5,848.12	6,141.77	1,029.67
Kingston R.P.D.....	410,774.03	200,933.70	209,840.33	17,407.79
Lakefield R.P.D.....	*70,645.04	35,211.85	35,433.19	2,211.40
Marmora R.P.D.....	6,009.24	3,004.62	3,004.62	103.55
Martintown R.P.D.....	56,246.50	28,123.25	28,123.25	3,346.10
Maxville R.P.D.....	141,305.38	70,652.69	70,652.69	9,693.51
Millbrook R.P.D.....	44,545.14	21,988.67	22,556.47	2,173.31
Napanee R.P.D.....	*331,628.77	162,582.59	169,046.18	8,701.63
Nepean R.P.D.....	*406,680.76	199,081.65	207,599.11	18,697.84
Newcastle R.P.D.....	*46,764.22	22,451.41	24,312.81	2,555.95
Norwood R.P.D.....	*42,895.40	21,120.86	21,774.54	1,721.39
Omeme R.P.D.....	7,909.34	3,954.67	3,954.67	172.40
Oshawa R.P.D.....	372,875.63	182,918.83	189,956.80	30,561.99
Perth R.P.D.....	41,040.36	20,520.18	20,520.18	1,736.87
Peterborough R.P.D.....	*231,738.60	114,858.61	116,879.99	18,570.34
Prescott R.P.D.....	96,998.30	48,318.05	48,680.25	4,749.10
Renfrew R.P.D.....	*61,870.59	28,320.89	33,549.70	3,321.79
Smiths Falls R.P.D.....	*170,493.32	82,385.53	88,107.79	7,186.32
Sterling R.P.D.....	*58,988.66	27,117.59	31,871.07	1,655.64
Sulphide R.P.D.....	18,592.56	9,296.28	9,296.28	218.29
Trenton R.P.D.....	*121,400.26	60,513.36	60,886.90	3,326.78
Warkworth R.P.D.....	*19,922.48	9,634.39	10,288.09	205.57
Wellington R.P.D.....	*258,357.53	128,551.29	129,806.24	10,499.47
Williamsburg R.P.D.....	65,551.91	32,775.95	32,775.96	2,530.68
Total capital.....	4,646,918.40	2,286,723.91	2,360,194.49	
Non-operating capital.....	84,967.84	42,336.06	42,631.78	
Grand totals.....	4,731,886.24	2,329,059.97	2,402,826.27	226,209.79

Note—Items marked * include portions of transmission lines aggregating \$33,299.68 used for purposes of rural power districts.

RURAL POWER DISTRICTS

E.O.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

Distribution costs and fixed charges				Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest	Provision for depreciation and obsolescence	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,445.91	844.78	364.84	193.79	4,981.40	4,226.11	.....	755.29
825.99	376.16	159.08	86.30	2,820.90	3,265.87	444.97	.....
7,418.05	4,011.42	1,733.84	920.25	25,573.25	26,919.95	1,346.70	.....
1,666.22	1,334.77	581.59	306.20	7,807.92	8,887.87	1,079.95	.....
441.96	447.21	194.86	102.59	1,941.87	2,264.85	322.98	.....
10,171.24	5,919.89	2,505.97	1,358.06	30,395.67	33,895.06	3,499.39	.....
2,470.54	962.00	419.17	220.69	6,140.05	4,028.01	.....	2,112.04
126.08	24.15	10.52	5.54	192.53	50.58	.....	141.95
4,510.74	3,229.72	1,349.41	740.91	19,791.94	20,554.95	763.01	.....
6,531.14	5,193.94	2,248.53	1,191.52	24,465.50	23,469.57	.....	995.93
2,931.20	1,663.00	724.60	381.50	9,706.05	9,047.79	.....	658.26
4,700.39	3,130.96	1,355.13	718.26	16,620.51	16,879.92	259.41	.....
4,854.82	4,218.28	1,831.19	967.70	23,517.42	26,948.08	3,430.66	.....
314.00	274.47	116.69	62.96	1,797.79	1,941.50	143.71	.....
14,319.13	8,174.60	3,427.69	1,875.30	45,204.51	45,314.42	109.91	.....
1,458.63	1,394.07	605.23	319.81	5,989.14	5,626.72	.....	362.42
156.54	128.46	55.97	29.47	473.99	514.13	40.14	.....
2,512.04	1,222.37	532.61	280.42	7,893.54	7,158.70	.....	734.84
4,572.46	3,122.34	1,360.46	716.29	19,465.06	17,748.08	.....	1,716.98
1,110.26	923.64	396.83	211.89	4,815.93	5,308.78	492.85	.....
6,752.36	6,229.50	2,635.87	1,429.09	25,748.45	24,366.27	.....	1,382.18
12,675.44	8,895.10	3,791.48	2,040.59	46,100.45	49,232.35	3,131.90	.....
1,406.79	1,075.59	450.24	246.75	5,735.32	6,048.11	312.79	.....
1,735.38	913.80	391.70	209.63	4,971.90	3,327.50	.....	1,644.40
306.67	169.85	74.01	38.96	761.89	399.15	.....	362.74
17,224.99	8,230.60	3,516.64	1,888.15	61,422.37	63,811.69	2,389.32	.....
1,605.25	837.37	364.86	192.10	4,736.45	3,284.25	.....	1,452.20
10,156.12	4,893.78	2,118.60	1,122.67	36,861.51	38,887.17	2,025.66	.....
2,768.33	1,829.72	793.66	419.75	10,560.56	10,886.66	326.10	.....
3,139.96	1,477.17	591.90	338.88	8,869.70	7,206.86	.....	1,662.84
6,224.49	3,655.90	1,539.42	838.69	19,444.82	19,968.23	523.41	.....
866.08	1,297.50	518.31	297.66	4,635.19	4,204.66	.....	430.53
401.22	105.55	46.00	24.21	795.27	227.28	.....	567.99
3,536.86	2,510.91	1,090.36	576.02	11,040.93	10,531.68	.....	509.25
663.39	292.92	121.16	67.20	1,350.24	951.90	.....	398.34
7,308.62	5,095.82	2,207.94	1,169.02	26,280.87	23,378.98	.....	2,901.89
1,795.08	1,469.00	640.07	337.00	6,771.83	7,270.23	498.40	.....
151,104.37	95,576.31	40,866.43	21,925.82	535,682.72	538,033.91	21,141.26	18,790.07

Note—For townships included in rural power districts see "Cost of Power" statement preceding.

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash Receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
Alexandria.....	Jan. 1921	\$ 739.53	\$ c.	\$ c.	\$ 739.53
Apple Hill.....	April 1921	230.99			230.99
Athens.....	Jan. 1929	531.91			531.91
Bath.....	Nov. 1931	95.51			95.51
Belleville.....	April 1929	14,673.09			14,673.09
Bloomfield.....	April 1919	318.73			318.73
Bowmanville.....	Oct. 1931	6,378.82			6,378.82
Brighton.....	Nov. 1929	1,220.38			1,220.38
Brockville.....	April 1915	8,296.35			8,296.35
Cardinal.....	July 1930	900.15			900.15
Carleton Place.....	May 1919	5,292.77			5,292.77
Chesterville.....	April 1914	1,091.44			1,091.44
Cobden.....	Nov. 1935	269.07			269.07
Cobourg.....	Jan. 1932	4,054.06			4,054.06
Colborne.....	Jan. 1933	485.68			485.68
Deseronto.....	Jan. 1931	947.08			947.08
Finch.....	Feb. 1928	567.61			567.61
Hastings.....	June 1931	304.85			304.85
Havelock.....	Feb. 1921	460.76			460.76
Kemptville.....	Dec. 1921	1,191.56			1,191.56
Lakefield.....	Aug. 1920	1,319.64			1,319.64
Lanark.....	Sept. 1921	198.59			198.59
Lancaster.....	May 1921	520.67		6.90	527.57
Lindsay.....	Mar. 1928	5,378.44			5,378.44
Madoc.....	Jan. 1930	200.46			200.46
Marmora.....	Jan. 1921	143.41			143.41
Martintown.....	May 1921	72.13			72.13
Maxville.....	Feb. 1921	508.64			508.64
Napanee.....	Nov. 1929	4,429.84			4,429.84
Newcastle.....	Jan. 1937				
Norwood.....	Feb. 1921	310.72			310.72
Oshawa.....	Feb. 1929	35,810.43			35,810.43
Ottawa.....	Jan. 1914	18,092.15			18,092.15
Perth.....	Feb. 1919	2,743.72			2,743.72
Peterborough.....	Mar. 1913	23,227.34			23,227.34
Picton.....	April 1919	3,244.58			3,244.58
Port Hope.....	Nov. 1929	3,927.18			3,927.18
Prescott.....	Dec. 1913	2,670.49			2,670.49
Richmond.....	Aug. 1928	121.91		0.83	122.74
Russell.....	Feb. 1926	650.60			650.60
Smiths Falls.....	Sept. 1918	4,342.79			4,342.79
Stirling.....	Jan. 1930	273.67			273.67
Trenton.....	Sept. 1931	8,016.89			8,016.89
Tweed.....	Dec. 1930	618.66			618.66
Warkworth.....	Oct. 1923	286.52			286.52

SYSTEM

E.O.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
12.32	869.83	.....	882.15	.....
4.10	138.05	.....	142.15	.....
9.33	525.21	.....	534.54	.....
1.59	262.50	.....	264.09	.....
256.52	9,345.99	.....	9,602.51	.....
5.38		118.37		112.99
107.72	5,032.53	.....	5,140.25	.....
22.19	616.42	.....	638.61	.....
140.87	5,022.64	.....	5,163.51	.....
16.01	541.53	.....	557.54	.....
108.14	4,652.74	.....	4,760.88	.....
18.66	955.57	.....	974.23	.....
4.39	363.07	.....	367.46	.....
66.64	2,934.37	.....	3,001.01	.....
9.56	360.78	.....	370.34	.....
17.24	738.94	.....	756.18	.....
10.60	706.86	.....	717.46	.....
6.06	337.92	.....	343.98	.....
8.79	529.14	.....	537.93	.....
20.05	1,360.22	.....	1,380.27	.....
26.24	1,816.03	.....	1,842.27	.....
3.85	249.95	.....	253.80	.....
12.84	267.04	.....	279.88	.....
89.59	6,610.94	.....	6,700.53	.....
3.30	45.63	.....	48.93	.....
2.80	462.35	.....	465.15	.....
1.21	8.22	.....	9.43	.....
8.81	621.25	.....	630.06	.....
80.37	3,628.97	.....	3,709.34	.....
.....	38.50	.....	38.50	.....
6.16	236.11	.....	242.27	.....
710.32	33,354.80	.....	34,065.12	.....
350.94	2,733.06	.....	3,084.00	.....
47.81	2,433.40	.....	2,481.21	.....
401.64	13,823.76	.....	14,225.40	.....
56.64	1,134.90	.....	1,191.54	.....
74.46	4,094.93	.....	4,169.39	.....
54.77	1,419.17	.....	1,473.94	.....
2.69	378.52	.....	381.21	.....
15.85	512.76	.....	528.61	.....
73.34	1,893.76	.....	1,967.10	.....
4.74	260.83	.....	265.57	.....
134.03	3,506.98	.....	3,641.01	.....
10.45	1,161.39	.....	1,171.84	.....
5.76	333.29	.....	339.05	.....

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash Receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Wellington.....	April 1919	647.02	.....	.....	647.02
Westport.....	Nov. 1931	768.62	.....	.....	768.62
Whitby.....	Jan. 1926	2,880.52	.....	.....	2,880.52
Williamsburg.....	April 1915	782.68	.....	.....	782.68
Winchester.....	Jan. 1914	1,219.79	.....	.....	1,219.79
Total—Municipalities.....		171,458.44	.....	7.73	171,466.17
RURAL POWER DISTRICTS					
Alexandria R.P.D.....	Dec. 1929	.....	5,363.62	65.47	.....
Arnprior R.P.D.....	Dec. 1930	.....	1,262.79	105.00	16.57
Belleville R.P.D.....	Aug. 1927	36,505.37	.....	85.00	111.08
Bowmanville R.P.D.....	Jan. 1924	3,231.73	.....	.....	186.64
Brighton R.P.D.....	Nov. 1929	812.82	.....	.....	31.07
Brockville R.P.D.....	Nov. 1921	5,611.11	.....	.....	590.00
Campbellford R.P.D.....	Aug. 1924	.....	2,697.04	35.86	45.00
Carleton Place R.P.D.....	Feb. 1932	.....	111.83	.....	.....
Chesterville R.P.D.....	Nov. 1921	.....	3,540.26	135.00	125.72
Cobourg R.P.D.....	Feb. 1927	.....	775.43	21.27	355.00
Colborne R.P.D.....	Aug. 1925	.....	4,212.22	40.00	119.97
Fenelon Falls R.P.D.....	July 1931	.....	2,370.74	199.76	157.91
Iroquois R.P.D.....	July 1930	9,898.16	.....	50.58	.....
Kemptville R.P.D.....	Dec. 1930	255.93	.....	.....	16.60
Kingston R.P.D.....	Jan. 1923	.....	7,632.64	.....	699.38
Lakefield R.P.D.....	July 1928	.....	3,459.53	24.33	25.00
Marmora R.P.D.....	July 1936	.....	103.67	.....	5.72
Martintown R.P.D.....	Jan. 1922	3,433.42	.....	130.00	167.99
Maxville R.P.D.....	Dec. 1927	.....	4,012.92	20.00	293.72
Millbrook R.P.D.....	July 1930	.....	1,505.30	.....	71.35
Napanee R.P.D.....	Nov. 1927	.....	8,611.89	22.27	85.00
Nepean R.P.D.....	Feb. 1922	8,782.06	.....	733.77	200.41
Newcastle R.P.D.....	Sept. 1927	3,134.33	.....	.....	129.46
Norwood R.P.D.....	Jan. 1929	.....	3,146.79	5.00	10.44
Omeme R.P.D.....	Jan. 1931	.....	932.12	.....	104.79
Oshawa R.P.D.....	April 1918	51,198.82	.....	.....	368.95
Perth R.P.D.....	Aug. 1931	.....	6,941.36	.....	71.04
Peterborough R.P.D.....	Jan. 1927	20,129.93	.....	.....	99.08
Prescott R.P.D.....	June 1922	.....	974.71	298.50	70.00
Renfrew R.P.D.....	Nov. 1930	.....	3,312.32	404.35	.....
Smiths Falls R.P.D.....	May 1929	.....	717.74	.....	282.23
Stirling R.P.D.....	Nov. 1929	.....	896.77	.....	184.12
Sulphide R.P.D.....	Oct. 1937	.....	.....	.....	.....
Trenton R.P.D.....	Jan. 1924	6,874.72	.....	.....	277.38
Warkworth R.P.D.....	Nov. 1928	33.79	.....	.....	.....

SYSTEM

E.O.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
10.64	.....	408.22	.....	418.86	.....
14.05	.....	846.69	.....	860.74	.....
57.89	.....	2,213.84	.....	2,271.73	.....
16.55	.....	134.44	.....	150.99	.....
25.40	.....	793.93	.....	819.33	.....
3,149.30	.....	120,717.97	118.37	123,861.89	112.99
.....	212.14	.....	755.29	.....	6,265.58
.....	46.31	444.97	.....	.....	775.70
1,463.61	.....	1,346.70	.....	39,289.60	.....
124.07	.....	1,079.95	.....	4,249.11	.....
31.51	.....	322.98	.....	1,136.24	.....
205.84	.....	3,499.39	.....	8,726.34	.....
.....	109.68	.....	2,112.04	.....	4,927.90
.....	4.47	.....	141.95	.....	258.25
.....	136.21	763.01	.....	.....	2,904.18
.....	45.22	.....	995.93	.....	2,150.31
.....	166.89	.....	658.26	.....	5,117.34
.....	97.91	259.41	.....	.....	2,167.39
395.93	.....	3,430.66	.....	13,775.33	.....
10.24	.....	143.71	.....	393.28	.....
.....	321.71	109.91	.....	.....	8,543.82
.....	139.38	.....	362.42	.....	3,962.00
.....	4.38	40.14	.....	.....	73.63
142.54	.....	.....	734.84	2,803.13	.....
.....	159.72	.....	1,716.98	.....	6,163.34
.....	60.81	492.85	.....	.....	1,144.61
.....	347.88	.....	1,382.18	.....	10,404.68
368.12	.....	3,131.90	.....	12,815.44	.....
123.57	.....	312.79	.....	3,441.23	.....
.....	125.67	.....	1,644.40	.....	4,922.30
.....	39.28	.....	362.74	.....	1,438.93
2,044.54	.....	2,389.32	.....	55,263.73	.....
.....	279.45	.....	1,452.20	.....	8,744.05
804.80	.....	2,025.66	.....	22,861.31	.....
.....	41.79	326.10	.....	.....	461.90
.....	123.49	.....	1,662.84	.....	4,694.30
.....	39.91	523.41	.....	.....	516.47
.....	39.87	.....	430.53	.....	1,551.29
.....	.....	.....	567.99	.....	567.99
269.39	.....	.....	509.25	6,357.48	.....
1.35	.....	.....	398.34	.....	363.20

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Rural power district	Date commenced operating	Net credit or charge at October 31, 1936		Cash Receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Wellington R.P.D.....	Nov. 1925	.....	4,727.11	.....	321.12
Williamsburg R.P.D.....	Feb. 1923	.....	186.28	3.69	40.00
Totals—Rural power districts		149,902.19	67,495.08	2,379.85	5,262.74
Totals—Municipalities		171,458.44	.....	7.73	171,466.17
Totals—Rural power districts		149,902.19	67,495.08	2,379.85	5,262.74
Totals.....		321,360.63	67,495.08	2,387.58	176,728.91

EASTERN ONTARIO SYSTEM

E.O.—SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Municipality	Period of years ending Oct. 31, 1937	Amount	Municipality	Period of years ending Oct. 31, 1937	Amount
		\$ c.			\$ c.
Alexandria.....	13 years	24,795.74	Marmora.....	9 years	3,965.41
Apple Hill.....	13 "	2,580.55	Martintown.....	13 "	1,611.09
Athens.....	9 "	4,388.60	Maxville.....	13 "	7,542.66
Bath.....	6 "	1,380.53	Napanee.....	8 "	29,087.33
Belleville.....	9 "	119,707.98	Newcastle.....	1 "	332.88
Bloomfield.....	9 "	4,435.38	Norwood.....	9 "	4,454.82
Bowmanville.....	6 "	36,749.38	Oshawa.....	9 "	365,542.72
Brighton.....	8 "	7,818.54	Ottawa.....	22 "	120,418.90
Brockville.....	17 "	133,152.53	Perth.....	13 "	53,301.70
Cardinal.....	8 "	3,471.65	Peterborough.....	9 "	216,071.30
Carleton Place.....	13 "	60,999.15	Picton.....	9 "	37,751.92
Chesterville.....	18 "	22,517.71	Port Hope.....	8 "	37,159.25
Cobden.....	2 "	286.41	Prescott.....	18 "	37,757.55
Cobourg.....	6 "	27,277.02	Richmond.....	10 "	1,952.37
Colborne.....	5 "	2,141.19	Russell.....	12 "	4,331.14
Deseronto.....	7 "	4,671.43	Smiths Falls.....	14 "	78,105.89
Finch.....	10 "	3,132.24	Stirling.....	8 "	6,146.37
Hastings.....	7 "	2,357.56	Trenton.....	6 "	48,415.24
Havelock.....	9 "	9,194.60	Tweed.....	7 "	6,125.95
Kemptville.....	13 "	15,747.78	Warkworth.....	9 "	2,781.78
Lakefield.....	9 "	9,159.83	Wellington.....	9 "	7,313.47
Lanark.....	13 "	4,812.37	Westport.....	6 "	2,972.84
Lancaster.....	13 "	4,940.99	Whitby.....	9 "	36,495.73
Lindsay.....	9 "	65,827.39	Williamsburg.....	17 "	4,762.26
Madoc.....	8 "	5,193.85	Winchester.....	18 "	15,649.09
Total—Municipalities.....			\$1,706,790.06		

SYSTEM

E.O.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustment or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937.

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	195.88	.....	2,901.89	.....	8,146.00
.....	9.05	.....	.....	266.76	.....
5,985.51	2,747.10	21,141.26	18,790.07	171,378.98	86,265.16
3,149.30	.....	120,717.97	118.37	123,861.89	112.99
5,985.51	2,747.10	21,141.26	18,790.07	171,378.98	86,265.16
9,134.81	2,747.10	141,859.23	18,908.44	295,240.87	86,378.15

EASTERN ONTARIO SYSTEM

E.O.—SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Rural power district*	Period of years ending Oct. 31, 1937	Amount	Rural power district*	Period of years ending Oct. 31, 1937	Amount
Alexandria R.P.D.....	8 years	\$ c. 2,741.69	Oshawa R.P.D.....	9 years	\$ c. 37,511.46
Arnprior R.P.D.....	7 "	707.02	Perth R.P.D.....	7 "	1,854.21
Belleville R.P.D.....	9 "	16,249.87	Peterborough R.P.D.....	9 "	25,291.63
Bowmanville R.P.D.....	9 "	4,887.42	Prescott R.P.D.....	16 "	10,162.73
Brighton R.P.D.....	8 "	1,283.65	Renfrew R.P.D.....	7 "	1,145.57
Brockville R.P.D.....	16 "	21,247.33	Smiths Falls R.P.D.....	9 "	10,876.65
Campbellford R.P.D.....	9 "	3,908.93	Stirling R.P.D.....	8 "	3,446.08
Carleton Place R.P.D.....	6 "	30.67	Sulphide R.P.D.....	1 "	41.16
Chesterville R.P.D.....	16 "	13,790.25	Trenton R.P.D.....	9 "	6,867.21
Cobourg R.P.D.....	9 "	17,396.68	Warkworth R.P.D.....	9 "	262.72
Colborne R.P.D.....	9 "	5,717.62	Wellington R.P.D.....	9 "	13,940.41
Fenelon Falls R.P.D.....	7 "	5,525.70	Williamsburg R.P.D.....	13 "	2,829.52
Iroquois R.P.D.....	8 "	15,205.12	Totals—Rural power districts. . .		\$ 320,362.85
Kemptville R.P.D.....	7 "	1,019.08	Totals—Municipalities.		\$1,706,790.06
Kingston R.P.D.....	9 "	20,935.31	Totals—Rural power districts.		320,362.85
Lakefield R.P.D.....	9 "	2,729.13	Grand totals.		\$2,027,152.91
Marmora R.P.D.....	2 "	50.22			
Martintown R.P.D.....	16 "	6,964.42			
Maxville R.P.D.....	10 "	12,572.55			
Millbrook R.P.D.....	8 "	2,648.96			
Napanee R.P.D.....	9 "	14,768.46			
Nepean R.P.D.....	16 "	29,348.37			
Newcastle R.P.D.....	9 "	4,066.72			
Norwood R.P.D.....	9 "	2,000.74			
Omeme R.P.D.....	7 "	337.59			

Note—For townships included in rural power districts see "Cost of Power" statement preceding.

THUNDER BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating	
	To Oct. 31 1936	To Oct. 31 1937			Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.
Fort William.....	\$21.00 plus transformation charges...		2,569,820.25	10,538.0	37,978.23	117,959.93
Port Arthur.....	\$21.00 plus transformation charges...		9,245,310.03	38,515.6	133,952.30	424,353.85
Township of Nipigon....	30.00	30.00	24,880.61	112.3	1,031.56	1,141.64
RURAL POWER DISTRICTS						
Fort William R.P.D.—Island Ward, McGregor, McIntyre, McTavish, Neebing, Oliver, Paipoonge and Shuniah twps.....			37,702.40	143.6	801.15	1,731.07
Port Arthur R.P.D.—Island Ward, McGregor, McIntyre, McTavish and Shuniah twps.....			17,081.56	59.7	474.95	784.51
Totals—Municipalities.....			11,840,010.89	49,165.9	172,962.09	543,455.42
Totals—Rural power districts.....			54,783.96	203.3	1,276.10	2,515.58
Totals—Companies and local distribution systems.....			7,507,186.93	29,569.9	125,977.15	333,628.44
			19,401,981.78			
Non-operating capital.....			105,406.49			
Grand totals.....			19,507,388.27	78,939.1	300,215.34	879,599.44

THUNDER BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding	Distribution Cost of operation maintenance and administration
	Total capital cost	Government grant	Commission's investment		
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Fort William R.P.D...	81,526.31	40,763.15	40,763.16	3,569.12	2,132.19
Port Arthur R.P.D....	54,326.27	27,163.14	27,163.13	1,733.48	1,514.87
Total—Capital.....	135,852.58	67,926.29	67,926.29		
Non-operating capital...	5,774.88	2,887.44	2,887.44		
Grand totals.....	141,627.46	70,813.73	70,813.73	5,302.60	3,647.06

SYSTEM

T.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
22,668.89	11,971.25	26,345.00	26,959.48	17,865.28	226,017.50	224,714.90	(1,302.60)
80,645.49	43,018.14	96,289.00	96,985.13	65,296.27	809,947.64	816,592.70	6,645.06
207.15	116.10	280.75	260.92	190.38	2,847.74	3,368.11	520.37
349.17	176.55	359.00	395.63	243.45	3,569.12	3,569.12	.....
166.26	80.42	149.25	179.30	101.21	1,733.48	1,733.48	.....
103,521.53	55,105.49	122,914.75	124,205.53	(83,351.93)	1,038,812.88	1,044,675.71	7,165.43 (1,302.60)
515.43	256.97	508.25	574.93	(344.66)	5,302.60	5,302.60	.....
53,866.61	30,344.02	.....	128,415.54	83,696.59	755,928.35	755,928.35	.....
157,903.57	85,706.48	123,423.00	253,196.00	.....	1,800,043.83	1,805,906.66	7,165.43 (1,302.60)

RURAL POWER DISTRICTS

T.B.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

costs and fixed charges			Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Interest	Provision for depreciation and obsolescence	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,786.68	783.74	412.64	8,684.37	10,150.90	1,466.53	.....
1,216.46	533.61	280.95	5,279.37	4,530.91	.....	748.46
3,003.14	1,317.35	693.59	13,963.74	14,681.81	1,466.53	748.46

THUNDER BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Fort William.....	Oct. 1926	6,283.73	.....	.....	6,283.73
Port Arthur.....	Dec. 1910	24,489.24	.....	.....	24,489.24
Township of Nipigon.....	Jan. 1925	279.93	.....	.....	279.93
RURAL POWER DISTRICTS					
Fort William R.P.D.....	Oct. 1932	1,120.56	.....	.....	318.53
Port Arthur R.P.D.....	Jan. 1932	.....	5,571.73	.....	205.98
Totals.....	.....	32,173.46	5,571.73	.....	31,577.41

THUNDER BAY SYSTEM

T.B.—SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Municipality	Period of years ending October 31, 1937	Amount
		\$ c.
Fort William.....	11 years	448,922.46
Port Arthur.....	11 "	1,518,550.35
Township of Nipigon.....	11 "	3,190.76
Totals Municipalities.....	.....	1,970,663.57
RURAL POWER DISTRICTS		
Fort William R.P.D.....	6 years	4,228.72
Port Arthur R.P.D.....	6 "	2,461.23
Totals—Rural power districts.....	.....	6,689.95
Totals—Municipalities.....	.....	1,970,663.57
Totals—Rural power districts.....	.....	6,689.95
Grand total.....	.....	1,977,353.52

SYSTEM

T.B.—CREDIT OR CHARGE

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
124.64	.....	.....	1,302.60	.....	1,177.96
402.56	.....	6,645.06	.....	7,047.62	.....
5.22	.....	520.37	.....	525.59	.....
35.46	.....	1,466.53	.....	2,304.02	.....
.....	226.67	.....	748.46	.....	6,752.84
567.88	226.67	8,631.96	2,051.06	9,877.23	7,930.80

MANITOULIN ISLAND

Statement showing the costs of distribution of power within the Rural Power District; amount remaining to be credited to this District upon ascertainment (by

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Distribution
	Total capital cost	Government grant	Commission's investment	Cost of power purchased
	\$ c.	\$ c.	\$ c.	\$ c.
Manitoulin R.P.D.—Billings, Car-narvon and Gordon and Allan twps., Town of Gore Bay and Indian Reserve	78,517.07	36,327.88	42,189.19	3,750.00
Non-operating capital.....	1,138.95	569.47	569.48	.....
Grand totals.....	79,656.02	36,897.35	42,758.67	3,750.00

MANITOULIN ISLAND

Statement showing the net charge to Manitoulin Rural Power District in respect net amount credited to this Rural Power District in respect of power amount standing as a charge

Rural power district	Date commenced operating	Net charge at October 31, 1936	Adjustments made during the year
		Charge	Credited
		\$ c.	\$ c.
Manitoulin R.P.D.....	Dec. 1932	2,932.90	18.58

MANITOULIN ISLAND RURAL POWER DISTRICT

SINKING FUND

Statement showing Sinking Fund paid by Manitoulin Rural Power District in the periods mentioned hereunder, as part of the cost of power delivered thereto and interest allowed thereon to October 31, 1937.

Rural power district	Period of years ending October 31, 1937	Amount
		\$ c.
Manitoulin R.P.D.....	5 years	1,914.38

RURAL POWER DISTRICT

MANITOULIN—RURAL OPERATING

the revenue collected from (or charged to) customers within the District and the annual adjustment) of the actual costs in the year ending October 31, 1937

costs and fixed charges					Revenue from power and light customers in each district	Amounts remaining to be credited to the district
Cost of operation maintenance and administration	Interest	Depreciation and obsolescence	Sinking fund	Total cost		Credited
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,364.82	1,605.15	657.90	377.24	7,755.11	9,207.62	1,452.51
1,364.82	1,605.15	657.90	377.24	7,755.11	9,207.62	1,452.51

RURAL POWER DISTRICT

MANITOULIN—CREDIT OR CHARGE

of power supplied to it to October 31, 1936, interest added during the year; also the supplied in the year ending October 31, 1937, and the accumulated at October 31, 1937.

Interest at 4% per annum added during the year	Net amount credited in respect of power supplied in the year ending October 31, 1937	Accumulated amount standing as a charge on October 31, 1937
Charged	Credited	Charge
\$ c.	\$ c.	\$ c.
118.32	1,452.51	1,580.13

NIPISSING RURAL

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Cost of power purchased from Nipissing District of Northern Ontario Properties
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
North Bay R.P.D.—West Ferris and Widdifield twps.....	62,460.17	30,858.21	31,601.96	5,822.62
Powassan R.P.D.—Himsworth South twp.....	7,174.32	3,587.16	3,587.16	292.21
Total capital.....	69,634.49	34,445.37	35,189.12	6,114.83
Non-operating capital.....	.....	.....	.....	.....
Grand totals.....	69,634.49	34,445.37	35,189.12	6,114.83

NIPISSING RURAL

Statement showing the net Credit to each Rural Power District in respect of power amount credited or charged to each Rural Power District in respect of accumulated amount standing as a credit to

Rural power district	Date commenced operating	Net credit at October 31, 1936
		Credit
North Bay R.P.D.....	June 1927	\$ c. 11,787.98
Powassan R.P.D.....	Nov. 1931	499.94
Totals.....	.....	12,287.92

POWER DISTRICTS

NIPISSING RURAL—OPERATING

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

Cost of operation maintenance and administration	Interest	Provision for depreciation and obsolescence	Provision for sinking fund	Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
						Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,407.04	1,681.52	567.63	298.87	10,777.68	13,088.48	2,310.80	.....
296.46	212.52	71.77	37.77	910.73	734.71	.....	176.02
2,703.50	1,894.04	639.40	336.64	11,688.41	13,823.19	2,310.80	176.02
.....
2,703.50	1,894.04	639.40	336.64	11,688.41	13,823.19	2,310.80	176.02

POWER DISTRICTS

NIPISSING RURAL—CREDIT OR CHARGE

supplied to it to October 31, 1936, the interest added during the year; also the net power supplied in the year ending October 31, 1937, and the each Rural Power District at October 31, 1937.

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937
Credited	Charged	Credited	Charged	Credit
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
471.52	2,310.80	.....	14,570.30
20.00	176.02	343.92
491.52	2,310.80	176.02	14,914.22

NIPISSING RURAL POWER DISTRICTS *SINKING FUND*

Statement showing Sinking Fund paid by each Rural Power District in the periods mentioned hereunder, as part of the Cost of Power delivered thereto and interest allowed thereon to October 31, 1937.

Rural power districts	Period of years ending October 31, 1937	Amount
North Bay R.P.D.....	8 years	\$ c. 1,783.98
Powassan R.P.D.....	6 "	190.07
Total.....		1,974.05

NORTHERN ONTARIO PROPERTIES

(Operated by The Hydro-Electric Power Commission of Ontario)

FINANCIAL ACCOUNTS

For the Year ended October 31, 1937

Relating to Power Properties which are held and operated by the Commission in trust for the Province of Ontario, and which are situated in the following Northern Districts:

Nipissing

Abitibi

Patricia

Sudbury

Espanola

St. Joseph

STATEMENTS

Balance Sheet as at October 31, 1937

Operating Account for the Year ended October 31, 1937

Schedules supporting the Balance Sheet as at October 31, 1937

Fixed Assets—By Districts

Depreciation and Obsolescence Reserves

Contingency Reserves

Sinking Fund Reserves

NORTHERN ONTARIO

Held and Operated by The Hydro-Electric Power

Balance Sheet as at

ASSETS

INVESTMENTS:

Fixed Assets:

Nipissing district.....	\$ 1,694,886.00	
Sudbury district.....	3,151,926.45	
Abitibi district.....	27,100,938.68	
Espanola district.....	12,913.21	
Patricia district.....	1,067,946.63	
St. Joseph district.....	709,462.80	
		<u>\$33,738,073.77</u>

CURRENT AND ACCRUED ASSETS:

Special deposits for matured interest and debentures unpaid....	\$ 187,123.78	
Sundry accounts receivable.....	13,324.42	
Power accounts receivable.....	276,227.25	
Province of Ontario—Deficit contributions.....	513,013.79	
Consumers' deposits:		
Securities—Bonds at par value.....	\$ 456,700.00	
Securities—Stocks at market value.....	144,200.00	
	<u>600,900.00</u>	
		<u>1,590,589.24</u>

DEFERRED DEBITS:

Maintenance materials and supplies.....	\$ 56,082.12	
Construction tools and equipment.....	52,599.99	
Prepayments.....	53,192.13	
Unamortized debt discount.....	505,311.33	
Miscellaneous deferred debits.....	750.96	
		<u>667,936.53</u>

\$35,996,599.54

PROPERTIES

Commission of Ontario in trust for the Province of Ontario

October 31, 1937.

LIABILITIES AND RESERVES

LONG-TERM LIABILITIES:

Funded debt in the hands of the public.....	\$24,000,000.00
Advances from the Province of Ontario for capital expenditures.	6,531,407.42
Purchase agreement—Falconbridge transformer station.....	28,378.95
	<u>\$30,559,786.37</u>

CURRENT AND ACCRUED LIABILITIES:

Accounts payable.....	\$ 111,084.77
Matured debenture interest unpaid.....	16,723.78
Debentures called and unpaid.....	170,400.00
Debenture interest accrued.....	67,083.32
Interest accrued on Provincial advances.....	122,451.47
Miscellaneous accrued liabilities.....	1,875.10
Hydro-Electric Power Commission of Ontario.....	967,419.55
Liability for consumers' deposits.....	631,842.70
	<u>2,088,880.69</u>

DEFERRED CREDITS:

Miscellaneous deferred credits.....	2,843.20
-------------------------------------	----------

RESERVES:

Depreciation and obsolescence reserves:

Additions to properties through depreciation and obsolescence reserves.....	\$ 1,425,573.65
-----------------------------------------------------------------------------	-----------------

Contingency reserves:

Additions to properties through contingency reserves.....	280,591.65
-----------------------------------------------------------	------------

Sinking fund reserves:

Provincial advances repaid through sinking funds.....	1,638,723.98
Miscellaneous reserves.....	200.00
	<u>3,345,089.28</u>

DEFICIT ACCOUNT:

Balance at November 1, 1936.....	\$888,802.80
Net income for the year ended October 31, 1937....	834,735.62

\$ 54,067.18

Sinking fund appropriations for the year ended

October 31, 1937.....	912,603.22
-----------------------	------------

Balance at October 31, 1937

	<u>\$ 966,670.40</u>
--	----------------------

Less: Advances from the Province of Ontario for
Operating deficits and sinking fund appropri-
ations.....

966,670.40

\$35,996,599.54

Auditors' Certificate

We have examined the Accounts of the Northern Ontario Properties for the year ended the 31st October, 1937, and report that, in conjunction with our Annual Report to the Lieutenant-Governor in Council, in our opinion the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the affairs of Northern Ontario Properties at the 31st October, 1937, according to the best of our information and the explanations given to us and as shown by the books and records of the Properties. We have obtained all the information and explanations we have required.

OSCAR HUDSON AND Co.,

Chartered Accountants,

Auditors

Dated at Toronto, Ontario,
9th April, 1938.

NORTHERN ONTARIO

Held and operated by The Hydro-Electric
in trust for the

Operating Account for

	Nipissing district	Sudbury district
	\$ c.	\$ c.
OPERATING REVENUE:		
Power sold to private companies and customers.....	253,360.00	426,000.12
Power sold to rural power districts.....	6,114.83	.....
Totals.....	259,474.83	426,000.12
OPERATING EXPENSES:		
Power purchased.....	350.75	28.75
Operation, maintenance and administration.....	90,565.69	96,467.66
Totals.....	90,916.44	96,496.41
INTEREST AND FIXED CHARGES:		
Interest.....	76,924.71	134,216.47
Provision for depreciation.....	18,286.26	30,731.41
Provision for contingencies.....	8,859.61	20,487.60
Provision for sinking fund.....	29,920.01	52,398.38
Totals.....	133,990.59	237,833.86
TOTAL OPERATING EXPENSES, INTEREST AND FIXED CHARGES.....	224,907.03	334,330.27
SURPLUS (OR DEFICIT).....	34,567.80	91,669.85

PROPERTIES

Power Commission of Ontario
Province of Ontario

the year ended October 31, 1937

Abitibi district	Espanola district	Patricia district	St. Joseph district	Total
\$ c. 2,013,396.99	\$ c. 12,721.80	\$ c. 124,958.35	\$ c. 131,244.47	\$ c. 2,961,681.73
.....	.....	.....	.....	6,114.83
2,013,396.99	12,721.80	124,958.35	131,244.47	2,967,796.56
.....	7,482.92	.....	.....	7,862.42
334,740.46	975.23	62,596.03	33,017.98	618,363.05
334,740.46	8,458.15	62,596.03	33,017.98	626,225.47
929,810.06	203.15	28,050.00	18,691.61	1,187,896.00
233,606.18	.....	.....	.....	282,623.85
35,473.56	.....	.....	.....	64,820.77
686,055.02	1,074.52	55,711.52	58,938.62	884,098.07
1,884,944.82	1,277.67	83,761.52	77,630.23	2,419,438.69
2,219,685.28	9,735.82	146,357.55	110,648.21	3,045,664.16
(206,288.29)	2,985.98	(21,399.20)	20,596.26	(77,867.60)

NORTHERN ONTARIO PROPERTIES

Held and Operated by The Hydro-Electric Power Commission of Ontario
in Trust for the Province of Ontario
Fixed Assets at October 31, 1937

District	Net capital expendi- tures in the year	Fixed Assets				Total
		Under con- struction	In service			
			Non- depreciable including lands and water rights	Depreciable		
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
NIPISSING:						
Power Plants:						
South river:						
Nipissing	35.55		11,099.60	239,078.84	250,178.44	
Bingham Chute.....	41.99	68.01	12,093.60	227,730.04	239,891.65	
Elliott Chute.....	30.67	19.33	119,307.09	335,124.99	454,451.41	
Storage dams.....				74,522.70	74,522.70	
Miscellaneous.....				6,390.46	6,390.46	
Intangible.....			69,478.34		69,478.34	
	37.11	87.34	211,978.63	882,847.03	1,094,913.00	
Transformer Stations.....	3,177.28			20,109.50	20,109.50	
Transmission Lines.....	10,986.05	10,986.05		172,963.28	183,949.33	
Local Systems.....	6,618.08		22,649.50	373,264.67	395,914.17	
	20,744.30	11,073.39	234,628.13	1,449,184.48	1,694,886.00	
SUDBURY:						
Power Plants:						
Wahnapiatae river:						
Coniston.....	9,054.42	323.94	13,200.00	522,738.79	536,262.73	
McVittie.....	10,711.14		13,200.00	391,059.06	404,259.06	
Stinson.....	9,301.25		33,000.00	639,843.75	672,843.75	
Storage dam.....				194,870.00	194,870.00	
Intangible.....			830,614.53		830,614.53	
Sturgeon river:						
Crystal Falls.....	10,173.19	7,071.29		3,101.90	10,173.19	
	17,817.72	7,395.23	890,014.53	1,751,613.50	2,649,023.26	
Transformer Stations.....	3,222.85	21.48		86,171.98	86,193.46	
Transmission Lines.....	216,435.63			413,113.89	413,113.89	
Local Systems.....	3,595.84	3,595.84			3,595.84	
	241,072.04	11,012.55	890,014.53	2,250,899.37	3,151,926.45	
ABITIBI:						
Power Plants:						
Abitibi river:						
Abitibi Canyon.....	11,129.42	7.34	5,472,496.27	14,189,422.15	19,661,925.76	
Frederick House river:						
Frederick House dam....	523,351.60	523,351.60			523,351.60	
	534,481.02	523,358.94	5,472,496.27	14,189,422.15	20,185,277.36	
Transformer Stations.....	187,063.61	704.83		1,130,491.47	1,131,196.30	
Transmission Lines.....	108,987.70	8,909.47	618,580.78	5,112,738.11	5,740,228.36	
Local Systems.....	8,416.47	6.58		44,230.08	44,236.66	
	838,948.80	532,979.82	6,091,077.05	20,476,881.81	27,100,938.68	

NORTHERN ONTARIO PROPERTIES

Held and Operated by The Hydro-Electric Power Commission of Ontario
in Trust for the Province of Ontario
Fixed Assets at October 31, 1937

District	Net capital expendi- tures in the year	Fixed Assets			Total
		Under con- struction	In service		
			Non- depreciable including lands and water rights	Depreciable	
ESPAÑOLA:	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Transformer Stations.....	12.40	12.40	.....	2,382.77	2,395.17
Transmission Lines.....	.....	.....	.....	10,518.04	10,518.04
	12.40	12.40	.....	12,900.81	12,913.21
PATRICIA:					
Power Plants:					
English river:					
Ear Falls.....	458,466.53	53,349.42	.....	1,007,824.14	1,061,173.56
Transformer Stations.....	1,453.19	995.70	.....	5,098.62	6,094.32
Transmission Lines.....	678.75	678.75	.....	.....	678.75
	460,598.47	55,023.87	.....	1,012,922.76	1,067,946.63
ST. JOSEPH:					
Power Plants:					
Albany river:					
Rat Rapids.....	19,942.97	.....	.....	667,379.56	667,379.56
Donation in aid of con- struction.....	.....	.....	.....	80,000.00	80,000.00
	19,942.97	.....	.....	587,379.56	587,379.56
Transformer Stations.....	1,374.66	.....	.....	5,029.02	5,029.02
Transmission Lines.....	1,691.01	.....	.....	117,054.22	117,054.22
	23,008.64	.....	.....	709,462.80	709,462.80

SUMMARY

District	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable including lands and water rights	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Nipissing district. . . .	20,744.30	11,073.39	234,628.13	1,449,184.48	1,694,886.00
Sudbury district.	241,072.04	11,012.55	890,014.53	2,250,899.37	3,151,926.45
Abitibi district.	838,948.80	532,979.82	6,091,077.05	20,476,881.81	27,100,938.68
Espanola district.	12.40	12.40	.....	12,900.81	12,913.21
Patricia district.	460,598.47	55,023.87	.....	1,012,922.76	1,067,946.63
St. Joseph district. . . .	23,008.64	.....	.....	709,462.80	709,462.80
	1,584,384.65	610,102.03	7,215,719.71	25,912,252.03	33,738,073.77

NORTHERN ONTARIO

Held and Operated by The Hydro-Electric Power

Depreciation and Obsolescence

	Nipissing district	Sudbury district
	\$ c.	\$ c.
Balances at November 1, 1936.....	304,137.21	177,434.55
Depreciation and obsolescence provision for the year.....	18,286.26	30,731.41
Interest for the year.....	12,165.49	7,097.38
Total additions.....	30,451.75	37,828.79
Total.....	334,588.96	215,263.34
Expenditures during the year.....	1,840.61	2,192.41
Balances as at October 31, 1937.....	332,748.35	213,070.93

Contingency Reserves

	Nipissing district	Sudbury district
	\$ c.	\$ c.
Balances at November 1, 1936.....	175,361.27	116,220.90
Contingency provision for the year.....	8,859.61	20,487.60
Interest for the year.....	7,014.45	4,648.84
Total additions.....	15,874.06	25,136.44
Total.....	191,235.33	141,357.34
Expenditures during the year.....	89.39	87,424.87
Balances as at October 31, 1937.....	191,145.94	53,932.47

Sinking Fund Reserves

	Nipissing district	Sudbury district
	\$ c.	\$ c.
Balances at November 1, 1936.....	35,966.60	58,694.30
Sinking Fund provision for the year.....	29,920.01	52,398.38
Interest for the year.....	1,438.66	2,347.77
Total additions.....	31,358.67	54,746.15
Balances as at October 31, 1937.....	67,325.27	113,440.45

PROPERTIES

Commission of Ontario in Trust for the Province of Ontario

Reserves—October 31, 1937

Abitibi district	Espanola district	Patricia district	St. Joseph district	Total
\$ c. 581,269.13	\$ c. 691.35	\$ c. 40,058.89	\$ c.	\$ c. 1,103,591.13
233,606.18	.....	.....	.....	282,623.85
23,250.77	27.65	1,602.36	.....	44,143.65
256,856.95	27.65	1,602.36	.....	326,767.50
838,126.08	719.00	41,661.25	.....	1,430,358.63
316.03	.....	435.93	.....	4,784.98
837,810.05	719.00	41,225.32	.....	1,425,573.65

—October 31, 1937

Abitibi district	Espanola district	Patricia district	St. Joseph district	Total
\$ c.	\$ c. 388.80	\$ c. 9,231.13	\$ c.	\$ c. 301,202.10
35,473.56	.....	.....	.....	64,820.77
.....	15.55	369.24	.....	12,048.08
35,473.56	15.55	369.24	.....	76,868.85
35,473.56	404.35	9,600.37	.....	378,070.95
4,159.58	.....	5,805.46	.....	97,479.30
31,313.98	404.35	3,794.91	.....	280,591.65

—October 31, 1937

Abitibi district	Espanola district	Patricia district	St. Joseph district	Total
\$ c. 523,115.25	\$ c. 409.40	\$ c. 51,923.36	\$ c. 56,011.85	\$ c. 726,120.76
686,055.02	1,074.52	55,711.52	58,938.62	884,098.07
20,924.61	16.38	1,817.32	1,960.41	28,505.15
706,979.63	1,090.90	57,528.84	60,899.03	912,603.22
1,230,094.88	1,500.30	109,452.20	116,910.88	1,638,723.98

THE HAMILTON STREET RAILWAY COMPANY

**(A Subsidiary of The Hydro-Electric Power Commission of Ontario—
Niagara System)**

FINANCIAL ACCOUNTS

For the Year ended October 31, 1937

Balance Sheet as at October 31, 1937

Operating and Income Accounts for the Year ended October 31, 1937

THE HAMILTON STREET

(A Subsidiary of The Hydro-Electric Power

Balance Sheet as at

ASSETS

INVESTMENTS:

Properties, road and equipment, buses, franchises, etc.....	\$4,699,635.34	
Less—Surplus created by advances from the Dominion Power and Transmission Company, Limited, prior to acquisition by The Hydro-Electric Power Commission of Ontario at December 31, 1929...	488,846.85	\$4,210,788.49

CURRENT AND ACCRUED ASSETS:

Cash in local bank.....	\$9,161.49	
Cash in the general bank account of the Commission.....	67,442.57	
Accounts receivable.....	4,392.91	80,996.97

DEFERRED DEBITS:

Materials and supplies.....	\$49,050.98	
Conductors' and employees' advances.....	12,370.00	
Prepayments.....	5,471.53	66,892.51
		<u>\$4,358,677.97</u>

RAILWAY COMPANY

Commission of Ontario—Niagara System)

October 31, 1937

LIABILITIES, RESERVES AND CAPITAL

CAPITAL STOCK:

Authorized: 80,000 shares of a par value of \$50.00 each . . .	<u>\$4,000,000.00</u>	
Issued: 64,100 shares of a par value of \$50.00 each		\$3,205,000.00

CURRENT AND ACCRUED LIABILITIES:

Accounts payable.	9,554.53
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RESERVES:

Reserve for depreciation—road and equipment	\$1,091,882.97	
Insurance reserves	41,660.93	
Operating reserves	<u>29,204.28</u>	1,162,748.18

DEFICIT:

Balance October 31, 1937	<u>18,624.74</u>
	<u>\$4,358,677.97</u>

Auditors' Certificate

We have examined the Accounts of The Hamilton Street Railway Company for the year ended the 31st October, 1937, and report that, subject to the comments contained in our Annual Report on the Accounts of The Hydro-Electric Power Commission of Ontario, in our opinion the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Company's affairs at the 31st October, 1937, according to the best of our information and the explanations given to us and as shown by the books of the Company. We have obtained all the information and explanations we have required.

OSCAR HUDSON AND Co.,

Dated at Toronto, Ontario,
9th April, 1938.

Chartered Accountants,

Auditors.

THE HAMILTON STREET RAILWAY COMPANY

(A Subsidiary of The Hydro-Electric Power Commission of Ontario—Niagara System)

Operating and Income Accounts for the year ended October 31, 1937

Operating Account

	Tramways		Buses		Total †
	\$	c.	\$	c.	\$ c.
OPERATING REVENUES:					
Revenue from transportation.....	880,086.18		224,755.63		1,104,841.81
Revenue from other operations.....	5,140.31		709.09		5,849.40
Operating revenues.....	885,226.49		225,464.72		1,110,691.21
OPERATING EXPENSES:					
Maintenance of way and structures.....	54,438.76				54,438.76
Maintenance of equipment.....	70,921.88		33,955.13		104,877.01
Power purchased.....	145,388.29				145,388.29
Transportation expenses.....	257,769.51		114,841.78		372,611.29
Traffic expenses.....	246.19				246.19
General and miscellaneous expenses.....	75,374.05		11,120.37		86,494.42
Depreciation provision.....	150,000.00		9,476.04		159,476.04
Operating expenses.....	754,138.68		169,393.32		923,532.00
NET OPERATING REVENUE.....	131,087.81		56,071.40		187,159.21
Taxes.....	50,911.57		9,097.14		60,008.71
NET OPERATING INCOME.....	80,176.24		46,974.26		127,150.50

Income Account

NET OPERATING INCOME (as above).....	\$127,150.50
Interest on advances from Niagara system.....	849.57
NET INCOME.....	126,300.93
DISPOSITION OF NET INCOME:	
Dividend appropriation of income.....	\$122,969.46
Appropriation for ticket reserve.....	3,331.47
	126,300.93
BALANCE TRANSFERRED TO DEFICIT ACCOUNT.....	NIL

GUELPH RADIAL RAILWAY

(Operated by The Hydro-Electric Power Commission of Ontario)

FINANCIAL ACCOUNTS

For the Year ended October 31, 1937

Balance Sheet as at October 31, 1937

Operating and Income Accounts for the Year ended October 31, 1937

GUELPH RADIAL

(Operated by The Hydro-Electric

Balance Sheet as at

ASSETS

INVESTMENTS:

Road and equipment.....	\$458,443.53
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CURRENT AND ACCRUED ASSETS:

Cash.....	\$50,455.15
Miscellaneous accounts receivable.....	739.10
Interest receivable.....	1,237.50
	<hr/>
	\$52,431.75

City of Guelph:

Operating deficit for the year ended October 31, 1937.....	\$39,584.06
Less:—Amount due to the City of Guelph as per purchase agreement.....	11,700.00
	<hr/>
	\$27,884.06

Payment on deficit for the year ended October 31, 1937.....	39,668.82
	<hr/>
	11,784.76

40,646.99

DEFERRED DEBITS:

Materials and supplies.....	\$2,757.53
Employees' working funds.....	850.00
Prepayments.....	1,059.36
	<hr/>
	4,666.89

SPECIAL FUNDS:

Reserve funds investments.....	65,244.90
	<hr/>
	<u>\$569,002.31</u>

RAILWAY

Power Commission of Ontario)

October 31, 1937

LIABILITIES, RESERVES AND EQUITY

LONG-TERM DEBT:

5% Hydro-Radial Debentures due November 1, 1970 (Issued for extensions and betterments, secured by \$300,000.00 5% City of Guelph debentures due May 1, 1971)	\$300,000.00
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CURRENT AND ACCRUED LIABILITIES:

Accounts and payrolls payable.....	\$21,364.98	
Matured interest unpaid.....	7,500.00	
		<u>28,864.98</u>

DEFERRED CREDITS:

Premium on funded debt.....	20,262.22
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RESERVES:

Reserve for depreciation—road and equipment.....	\$44,547.68	
Operating reserves.....	2,375.30	
		<u>46,922.98</u>

EQUITY OF THE CITY OF GUELPH:

Purchase price of the Railway as per purchase agreement of December 8, 1920.....	\$150,000.00	
Less:—Thirty-three instalments thereon.....	119,235.60	
	<u>\$ 30,764.40</u>	
Reserve:—Created by payment of instalments on the purchase price out of the revenue of the road and assessments against the City of Guelph.....	119,235.60	
Sinking fund reserve.....	22,952.13	
		<u>172,952.13</u>
		<u><u>\$569,002.31</u></u>

Auditors' Certificate

We have examined the Accounts of the Guelph Radial Railway for the year ended the 31st October, 1937, and report that, subject to the final adjustment for abandoned Street Railway Equipment and to the adequacy of the Reserve for Depreciation, in our opinion the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Railway's affairs at the 31st October, 1937, according to the best of our information and the explanations given to us and as shown by the books of the Railway. We have obtained all the information and explanations we have required.

OSCAR HUDSON AND Co.,

Dated at Toronto, Ontario,

Chartered Accountants,

9th April, 1938.

Auditors.

GUELPH RADIAL RAILWAY

(Operated by The Hydro-Electric Power Commission of Ontario)

Operating and Income Accounts for the year ended October 31, 1937

Operating Account

	Tramways		Buses		Total	
	\$	c.	\$	c.	\$	c.
OPERATING REVENUES:						
Revenue from transportation.....	42,620.88		19,751.34		62,372.22	
Revenue from other operations.....	474.47		58.62		533.09	
Operating revenues.....	43,095.35		19,809.96		62,905.31	
OPERATING EXPENSES:						
Maintenance of way and structures.....	4,204.55				4,204.55	
Maintenance of equipment.....	7,332.47		2,962.81		10,295.28	
Power purchased.....	10,553.31				10,553.31	
Transportation expenses.....	15,262.80		12,768.59		28,031.39	
Traffic expenses.....	98.69				98.69	
General and miscellaneous expenses.....	11,746.93		2,559.66		14,306.59	
Depreciation provision.....	1,199.88		6,245.42		7,445.30	
Operating expenses.....	50,398.63		24,536.48		74,935.11	
NET OPERATING DEFICIT.....	7,303.28		4,726.52		12,029.80	
Taxes.....	246.27				246.27	
NET OPERATING LOSS.....	7,549.55		4,726.52		12,276.07	

Income Account

NET OPERATING LOSS (as above).....		\$12,276.07
NET INTEREST CHARGES:		
Interest on long-term debt.....	\$15,000.00	
Amortization of Premium on debt.....	258.46	
	14,741.54	
Income from special funds.....	\$2,904.21	
Miscellaneous interest income.....	149.61	
	3,053.82	
		11,687.72
NET LOSS.....		23,963.79
SINKING FUND APPROPRIATION FOR THE YEAR:		
Principal.....	3,159.00	
Interest.....	761.27	
		3,920.27
DEFICIENCY AFTER SINKING FUND APPROPRIATION.....		27,884.06
MISCELLANEOUS DEBITS:		
Reserve Appropriation—Instalment on purchase agreement.....		11,700.00
TOTAL DEFICIT CHARGED TO THE CITY OF GUELPH.....		\$39,584.06

SECTION X

MUNICIPAL ACCOUNTS

and

Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission of Ontario

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing systems and operating with energy supplied by or through The Hydro-Electric Power Commission.

Financial statements prepared from the books of these "Hydro" utilities are submitted herein to show how each has operated during the past year, and its financial status at the present time. Other tables give useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the electrical utilities in all municipalities which have contracted with The Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with an accounting system designed by the Commission. During the year 1937, this standard method of accounting was installed in Beamsville, Forest Hill, Swansea and Newcastle.

Periodical inspections are made of the books of all "Hydro" electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities much of the book-keeping for the electrical utilities is performed by representatives of the municipal accounting department of the Commission as a measure of economy. This arrangement insures the correct application of the standard accounting system, with resultant uniformity in classification of revenues and expenditures; secures true reflections of the actual operating results for the year, and greatly enhances the comparative values of the reports.

The first financial statement in this section presents consolidated balance sheets for each year since 1913, and thus shows the march of progress. It combines the balance sheets of the local municipal utilities of all the systems. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$95,732,133.33 in 1937, and the total assets from \$11,907,826.86

to \$159,082,200.01. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to a maximum of \$52,685,316.86 in 1932 and receding to \$38,611,187.51 in 1937. The reasons for this are the regular fulfilment of debt retirement schedules under serial debenture provisions or by maturity of sinking funds, and also the fact that much of the cost of the increasing plant value has been financed out of reserves and surplus without increasing the capital liabilities of the respective utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent in 1913 to 25.2 per cent in 1937. The equities in The Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for each year since "Hydro" service was inaugurated and combines the results from the local municipal utilities of all the systems. After providing for every cost of operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net surplus of \$1,460,057.38 for 1937. (See also diagrams in Foreword to Report.)

The five statements, "A" to "E", following the two consolidated reports show the financial status of each municipal utility and the results of operations, giving classified information respecting revenue, operating costs, number of consumers and consumption, cost of power to municipalities, power and lighting rates charged to consumers, etc. In statements "A" and "B", the municipalities are arranged alphabetically under each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically.

Statement "A" presents the balance sheet of each electrical utility. The plant values are shown under the general subdivisions specified in the standard accounting system and the other items on the positive side of the ledger which are included in total assets are self-explanatory with the exception, perhaps, of the item entitled "equity in H-E.P.C. systems." The sinking fund portion of the cost paid year by year to the Commission for power is for the purpose of ultimately retiring the capital liabilities incurred by the Commission on behalf of the municipalities. A municipality's aggregate equity in the Commission's systems at any time is the total of the sinking fund payments that have been credited to it, together with interest. The total sinking fund equity acquired by these municipalities to the end of 1937 is shown in the consolidated balance sheet to be \$40,032,438.34.

In conformity with a policy of service at cost to the customer, refunds by cash or credit were made during the year in many municipalities from surplus funds accrued to the credit of municipal services, such as street lighting, water works, sewage disposal, etc., and to individual customers. The amounts of the accumulated surpluses rebated equalled, in different municipalities, from five per cent to twenty-five per cent of the previous year's revenue. The total thus returned to customers during the year 1937 amounted in round figures to \$450,000.00.

In each case the balance sheet includes the credit or charge representing the difference between the monthly payments for power at interim rates and the cost of power as ascertained by the Commission upon annual adjustment.

The reserves for depreciation, and the acquired equity in The Hydro-Electric Power Commission's systems, are listed individually and totalled; and under the heading "surplus" are included not only the free operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The depreciation reserve now amounts to 25.4 per cent of the total depreciable plant, while the depreciation reserve and surplus combined have already reached the sum of \$77,660,498.88, approximately 81.1 per cent of the total plant cost.

Statement "B" shows detailed operating reports for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure and the sums set aside for depreciation. The population served by each local utility and the number of consumers of each class are also shown.

The item "power purchased" in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.

Of the 287 municipal electric utilities included in this statement, 260 received from consumers revenue sufficient to meet in full all operating expenses, interest, debt retirement instalments, and standard depreciation reserve allocation and to yield an aggregate net surplus of \$1,472,470.91 for the year; 24 were able to defray out of revenue all such charges except a portion of the standard depreciation allocation aggregating \$7,644.09, in the case of three utilities the revenue was less than the total operating expenses, interest and debt retirement instalments by \$1,868.01.

Statement "C" shows the installation of street lights in each municipality together with the rates approved by this Commission, the revenue for 1937 and the cost per capita in each municipality.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.* For further reference to this informative statement, consult the special introduction to it on page 000.

Statement "E" presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1937, for domestic service, for commercial light service and for power service.

*The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

YEAR.....	1913	1914	1915
Number of municipalities included.....	45	69	99
	\$ c.	\$ c.	\$ c.
Lands and buildings.....	626,707.34	791,732.20	873,838.18
Substation equipment.....	1,090,875.69	1,476,087.84	1,582,062.56
Distribution system—overhead.....	2,690,834.74	3,422,763.93	4,234,626.05
Distribution system—underground.....	644,514.24	807,153.53	928,420.77
Line transformers.....	615,546.20	787,613.52	981,754.70
Meters.....	840,606.64	1,172,475.11	1,418,165.08
Street lighting equipment—regular.....	900,614.80	1,071,255.37	1,309,628.49
Street lighting equipment—ornamental.....	62,765.34	270,386.55	197,644.82
Miscellaneous construction expenses.....	866,551.89	2,062,035.90	1,701,182.66
Steam or hydraulic plant.....	1,401,175.28	420,108.33	461,651.60
Old plant.....	341,277.00	619,513.12	1,184,372.86
Total plant.....	10,081,469.16	12,901,125.40	14,873,347.77
Bank and cash balance.....	450,887.97	422,350.12	284,653.96
Securities and investments.....			
Accounts receivable.....	344,487.95	561,873.08	602,920.69
Inventories.....	540,274.58	615,226.76	726,556.76
Sinking fund on local debentures.....	431,747.27	625,217.03	868,983.78
Equity in H-E.P.C. systems.....			
Other assets.....	58,959.93	123,410.97	326,801.11
Total assets.....	11,907,826.86	15,249,203.36	17,683,264.07
LIABILITIES			
Debenture balance.....	8,711,308.37	10,678,078.36	11,831,811.03
Accounts payable.....	1,553,711.45	1,682,150.29	2,040,038.01
Bank overdraft.....	160,919.16	228,622.50	292,106.44
Other liabilities.....	42,412.81	113,838.66	37,388.31
Total liabilities.....	10,468,351.79	12,702,689.81	14,201,343.79
RESERVES			
For equity in H-E.P.C. systems.....			
For depreciation.....	478,145.88	850,618.07	1,337,739.73
Other reserves.....			
Total reserves.....	478,145.88	850,618.07	1,337,739.73
SURPLUS			
Debentures paid.....	202,751.26	320,129.10	394,466.22
Local sinking fund.....	431,747.27	625,217.03	868,983.78
Operating surplus.....	326,830.66	750,549.35	880,730.55
Total surplus.....	961,329.19	1,695,895.48	2,144,180.55
Total liabilities, reserves and surplus....	11,907,826.86	15,249,203.36	17,683,264.07
Percentage of net debt to total assets....	88.0	88.3	80.3

NOTE—In computing the “percentage of net debt to total assets” the ornamental street lighting capital, sinking fund on local debentures, and equity in H-E.P.C. systems, are excluded from assets; and the total liabilities are reduced by the amount of the local sinking fund reserve,

BALANCE SHEET

1916	1917	1918	1919	1920	1921
128	143	166	191	195	215
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,335,936.33	1,546,241.41	1,859,888.69	1,995,545.83	2,175,568.24	3,230,985.63
1,934,626.12	2,471,293.82	2,820,488.70	2,915,125.56	3,231,050.80	5,403,689.90
4,832,353.27	6,090,073.42	6,627,237.39	7,445,820.31	8,579,881.49	8,397,361.48
1,095,709.62	1,157,059.90	1,216,288.59	1,206,296.88	1,313,369.29	1,401,135.97
1,179,132.07	1,483,839.44	1,772,691.35	2,073,113.45	2,560,581.59	3,077,649.83
1,711,299.49	1,999,095.48	2,238,143.70	2,587,566.32	3,053,135.20	3,552,076.79
1,251,057.13	1,237,734.69	1,200,625.65	1,206,638.71	1,269,006.98	1,335,997.13
306,388.95	361,975.74	531,502.61	546,497.68	557,678.13	610,586.70
2,059,263.42	2,184,015.84	2,395,096.50	2,530,101.08	2,697,636.12	3,030,134.16
864,500.01	896,753.20	214,575.75	986,200.57	757,194.47	704,848.46
759,748.66	649,852.51	1,476,413.00	805,959.89	864,298.39	912,388.55
17,330,015.07	20,077,935.45	22,352,951.93	24,298,866.28	27,059,400.70	31,656,854.60
1,061,029.90	340,026.50	391,194.91	462,437.23	943,858.12	900,842.34
.....	.....	.....	627,076.53	341,855.88	477,678.69
695,152.23	1,285,097.33	1,124,018.44	1,921,166.69	2,022,538.88	2,155,788.62
764,504.59	1,261,398.36	972,996.96	1,032,569.75	1,400,671.89	1,504,596.28
1,166,017.73	1,337,578.96	1,663,298.05	1,925,455.77	2,244,004.34	2,541,718.35
.....	.....	.....	369,071.89	577,584.06	795,570.51
342,215.87	125,240.05	444,787.63	86,216.05	25,447.07	78,929.84
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
15,058,641.57	15,593,773.61	17,209,217.70	18,133,462.44	19,268,072.04	21,619,220.99
969,187.75	1,537,669.11	1,007,727.79	1,420,926.66	1,840,137.54	1,887,567.93
178,413.26	886,177.94	576,816.49	403,235.57	514,671.99	989,099.98
491,874.90	429,104.20	350,013.21	670,271.90	642,293.65	938,368.84
16,698,117.48	18,446,724.86	19,143,775.19	20,627,896.57	22,265,175.22	25,434,257.74
.....	.....	.....	373,871.89	577,584.06	800,249.05
1,843,804.68	2,463,723.83	3,133,550.17	3,750,162.28	4,788,645.03	5,491,858.93
.....
1,843,804.68	2,463,723.83	3,133,550.17	4,124,034.17	5,366,229.09	6,292,107.98
549,778.59	694,797.90	920,076.56	1,328,657.68	1,440,156.52	1,860,079.53
1,165,785.94	1,340,615.38	1,662,602.69	1,754,020.37	2,246,474.47	2,541,718.35
1,101,448.70	1,481,414.68	2,089,243.31	2,888,251.40	3,297,325.64	3,983,815.63
2,817,013.23	3,516,827.96	4,671,922.56	5,970,929.45	6,983,956.63	8,385,613.51
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
78.4	75.5	71.0	67.9	65.4	64.7

and the liability in respect to the ornamental street lighting capital, which amount is included in other liabilities.

CONSOLIDATED

YEAR.....	1922	1923	1924
Number of municipalities included.....	226	235	248
ASSETS	\$ c.	\$ c.	\$ c.
Lands and buildings.....	3,334,522.68	4,488,054.93	4,561,648.92
Substation equipment.....	5,046,857.98	6,015,919.75	6,800,238.00
Distribution system—overhead.....	11,165,330.24	13,135,581.76	14,182,190.33
Distribution system—underground.....	1,598,053.02	1,959,120.41	2,873,446.13
Line transformers.....	3,618,684.73	4,211,655.89	4,456,669.02
Meters.....	4,033,689.52	4,548,933.73	5,149,629.71
Street lighting equipment—regular.....	1,419,016.05	1,061,473.85	1,134,491.77
Street lighting equipment—ornamental.....	666,084.50	708,431.22	728,298.08
Miscellaneous construction expenses....	3,261,495.74	3,681,274.88	4,168,262.21
Steam or hydraulic plant.....	565,158.54	566,619.86	4,196,803.45
Old plant.....	7,997,947.87	8,051,496.28	5,587,420.31
Total plant.....	42,706,840.87	48,428,562.56	53,839,097.93
Bank and cash balance.....	1,164,336.24	1,276,140.06	1,748,912.34
Securities and investments.....	443,938.18	1,153,424.47	1,329,622.58
Accounts receivable.....	3,874,317.14	3,198,769.34	3,898,751.89
Inventories.....	1,738,795.96	1,819,711.62	1,745,628.16
Sinking fund on local debentures.....	3,416,231.45	3,896,261.28	4,520,723.06
Equity in H-E.P.C. systems.....	1,543,434.12	2,929,603.94	5,420,567.58
Other assets.....	238,940.13	190,071.63	250,292.77
Total assets.....	55,126,834.09	62,892,544.90	72,753,596.31
LIABILITIES			
Debenture balance.....	30,454,186.12	33,056,501.29	38,005,162.50
Accounts payable.....	3,699,292.52	3,708,781.76	3,117,224.08
Bank overdraft.....	456,706.69	680,714.59	162,100.71
Other liabilities.....	586,203.02	1,517,828.47	1,780,564.27
Total liabilities.....	35,196,388.35	38,963,826.11	43,065,051.56
RESERVES			
For equity in H-E.P.C. systems.....	1,543,434.12	2,929,603.94	5,420,567.58
For depreciation.....	6,512,813.92	7,328,858.69	8,097,834.68
Other reserves.....			
Total reserves.....	8,056,248.04	10,258,462.63	13,518,402.26
SURPLUS			
Debentures paid.....	3,104,591.15	2,852,038.38	3,530,610.35
Local sinking fund.....	3,416,231.45	3,896,261.28	4,520,723.06
Operating surplus.....	5,353,375.10	6,921,956.50	8,118,809.08
Total surplus.....	11,874,197.70	13,670,256.16	16,170,142.49
Total liabilities, reserves and surplus....	55,126,834.09	62,892,544.90	72,753,596.31
Percentage of net debt to total assets....	63.3	62.6	61.4

BALANCE SHEET—Continued

1925	1926	1927	1928	1929
247	251	252	256	260
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,768,855.99	6,111,162.54	6,486,426.89	7,024,646.76	7,469,451.46
8,543,166.55	9,505,501.77	15,088,905.14	16,866,186.21	18,102,792.13
16,837,535.57	18,654,240.54	16,689,462.41	17,688,050.68	18,108,016.82
3,388,837.09	3,689,569.95	3,278,382.58	3,559,288.16	4,823,369.60
5,079,754.23	5,538,605.24	5,985,521.37	6,549,674.64	7,312,742.17
5,533,483.92	5,963,162.51	6,346,660.59	6,839,802.90	7,405,478.91
1,256,916.53	1,309,608.30	1,399,314.06	1,486,646.24	1,594,183.25
893,186.48	1,103,660.23	1,184,035.82	1,203,706.65	1,458,349.64
4,485,110.96	3,456,777.71	3,360,671.09	3,394,626.92	3,483,487.78
568,912.49	628,909.57	607,320.00	619,880.93	489,097.57
4,549,142.46	4,655,422.59	5,095,555.90	5,032,089.26	5,093,378.75
56,904,902.27	60,616,620.95	65,522,255.85	70,264,599.35	75,340,348.08
1,700,145.30	2,136,290.79	3,014,832.48	1,342,367.07	858,733.68
1,095,662.92	1,400,316.43	1,696,237.66	1,837,140.51	2,001,088.81
3,417,558.86	3,508,817.87	3,715,770.72	4,097,446.13	4,683,201.97
1,711,504.13	1,397,667.83	1,412,729.41	1,220,186.10	1,365,033.58
5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,753,613.88
7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40
137,280.05	33,151.81	31,942.45	153,275.04	152,260.86
77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26
37,919,225.01	39,602,533.48	42,891,361.57	42,597,175.78	42,930,127.74
3,139,067.92	3,118,684.78	2,988,621.90	3,074,634.25	3,132,145.03
226,147.82	163,725.53	252,362.52	253,143.81	412,056.69
1,075,914.83	1,087,795.08	1,154,810.24	1,258,610.23	1,621,378.17
42,360,355.58	43,972,738.87	47,287,156.23	47,183,564.07	48,095,707.63
7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40
8,699,437.68	9,360,322.27	10,319,889.05	11,140,795.68	11,911,154.49
1,157,147.20	947,970.23	1,002,916.69	1,117,257.63	1,437,371.26
17,408,173.58	18,355,161.03	21,466,011.40	24,584,150.87	28,103,391.15
4,440,138.34	5,493,879.83	6,648,767.38	7,928,907.61	9,194,253.59
5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,962,121.20
8,309,974.73	9,317,954.48	10,135,039.22	11,544,489.21	13,553,672.69
17,952,564.77	20,411,509.32	23,182,716.37	26,544,670.51	30,710,047.48
77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26
57.2	55.5	54.2	50.8	47.8

CONSOLIDATED

YEAR.....	1930	1931	1932
Number of municipalities included.....	267	275	280
ASSETS	\$ c.	\$ c.	\$ c.
Lands and buildings.....	7,936,974.31	8,407,664.48	9,503,743.78
Substation equipment.....	19,485,056.28	21,013,956.74	22,288,781.68
Distribution system—overhead.....	19,220,326.48	19,918,355.76	20,866,767.32
Distribution system—underground.....	4,932,189.05	5,361,627.24	5,820,056.75
Line transformers.....	7,953,090.23	8,649,875.07	9,392,662.62
Meters.....	7,840,948.07	8,106,202.88	8,403,251.67
Street lighting equipment—regular.....	1,780,785.67	2,205,613.18	2,257,618.20
Street lighting equipment—ornamental.....	1,520,891.01	1,456,742.91	1,545,354.93
Miscellaneous construction expenses.....	3,996,747.77	3,827,132.05	4,120,926.11
Steam or hydraulic plant.....	139,587.28	458,374.05	498,231.69
Old plant.....	5,322,690.14	7,146,437.96	4,989,654.97
Other plants not distributed.....			200,000.00
Total plant.....	80,129,286.29	86,551,982.32	89,887,049.72
Bank and cash balance.....	2,722,250.12	2,738,319.67	3,185,442.00
Securities and investments.....	1,909,439.11	1,999,846.42	2,059,325.10
Accounts receivable.....	4,481,006.92	3,957,972.78	3,683,059.42
Inventories.....	1,242,994.51	1,276,531.01	1,232,209.52
Sinking fund on local debentures.....	8,396,255.47	8,735,050.84	9,099,210.61
Equity in H-E.P.C. systems.....	17,346,372.44	20,103,275.76	23,066,129.81
Other assets.....	173,030.05	174,879.28	163,637.79
Total assets.....	116,400,634.91	125,537,858.08	132,376,063.97
LIABILITIES			
Debenture balance.....	45,091,808.06	44,594,400.03	45,133,305.97
Accounts payable.....	3,001,186.21	5,382,306.13	3,512,724.58
Bank overdraft.....	405,663.14	312,575.54	298,910.20
Other liabilities.....	1,642,771.59	1,909,986.13	3,740,376.11
Total liabilities.....	50,141,429.00	52,199,267.83	52,685,316.86
RESERVES			
For equity in H-E.P.C. systems.....	17,346,372.44	20,103,275.76	23,066,129.81
For depreciation.....	12,885,387.51	13,748,049.68	14,902,177.02
Other reserves.....	1,574,655.74	1,693,129.83	1,902,308.64
Total reserves.....	31,806,415.69	35,544,455.27	39,870,615.47
SURPLUS			
Debentures paid.....	10,728,279.15	13,150,040.37	15,244,778.28
Local sinking fund.....	8,396,255.47	8,735,050.84	9,099,210.61
Operating surplus.....	15,328,255.60	15,909,043.77	15,476,142.75
Total surplus.....	34,452,790.22	37,794,134.98	39,820,131.64
Total liabilities, reserves and surplus....	116,400,634.91	125,537,858.08	132,376,063.97
Percentage of net debt to total assets...	46.0	44.1	43.4

BALANCE SHEET—Concluded

1933	1934	1935	1936	1937
282	282	284	283	287
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
10,186,471.28	10,262,692.98	10,381,191.41	10,528,595.34	10,785,473.59
22,306,800.94	22,327,618.75	22,072,115.14	22,162,208.03	22,900,269.21
21,152,681.20	21,353,725.80	21,650,567.75	22,163,701.17	22,699,652.43
5,945,225.61	6,031,767.74	6,068,724.47	6,070,337.02	6,100,282.76
9,478,605.14	9,635,279.35	9,678,578.13	9,845,939.94	10,128,591.29
8,514,165.03	8,624,504.78	8,767,892.27	9,043,615.65	9,234,773.90
2,381,599.40	2,395,296.48	2,420,238.81	2,527,188.03	2,610,137.97
1,458,443.68	1,464,306.73	1,486,302.46	1,504,596.77	1,508,564.76
4,040,859.74	3,907,359.92	3,616,986.74	4,019,430.59	4,389,592.08
502,978.62	494,932.96	496,050.14	496,186.33	496,186.33
5,016,755.92	4,978,079.44	4,917,917.43	4,876,405.43	4,878,609.01
200,000.00	200,000.00	200,000.00	200,000.00	.....
91,184,586.56	91,675,564.93	91,756,564.75	93,438,204.30	95,732,133.33
1,696,489.24	2,215,914.31	2,927,485.90	3,921,121.28	3,080,864.13
2,163,785.20	2,382,446.41	2,593,633.59	2,924,913.30	4,469,369.04
3,746,910.92	4,001,596.92	4,363,297.95	4,560,713.55	4,240,741.41
1,226,043.30	1,110,705.38	1,212,063.37	1,261,843.81	1,336,527.60
9,386,176.58	9,161,419.77	9,086,152.46	9,535,712.83	10,003,873.93
26,045,679.00	29,274,340.46	32,609,979.83	36,193,874.21	40,032,438.34
253,581.84	289,158.19	301,317.86	203,167.35	186,252.23
135,703,252.64	140,111,145.54	144,850,495.71	152,039,550.63	159,082,200.01
42,606,145.29	39,646,989.68	36,667,080.62	34,485,507.43	32,447,411.68
3,320,485.45	3,149,035.07	2,931,934.14	2,879,497.45	2,912,960.24
206,398.00	143,556.95	72,084.93	25,559.95	34,787.51
3,787,725.14	3,669,008.56	3,462,906.61	3,267,141.59	3,216,028.08
49,920,753.88	46,608,590.26	43,134,006.30	40,657,706.42	38,611,187.51
26,045,679.00	29,274,340.46	32,609,979.83	36,193,874.21	40,032,438.34
16,075,959.28	17,426,809.32	18,410,891.84	19,666,170.18	21,034,164.68
2,048,081.84	2,056,820.81	2,459,074.98	2,763,100.40	2,802,650.84
44,169,720.12	48,757,970.59	53,479,946.65	58,623,144.79	63,869,253.86
17,651,367.71	20,608,129.73	23,481,974.13	26,084,294.84	28,468,539.78
9,386,176.58	9,161,419.77	9,086,152.46	9,535,712.83	10,003,873.93
14,575,234.35	14,975,035.19	15,668,416.17	17,138,691.75	18,129,344.93
41,612,778.64	44,744,584.69	48,236,542.76	52,758,699.42	56,601,758.64
135,703,252.64	140,111,145.54	144,850,495.71	152,039,550.63	159,082,200.01
40.4	35.9	32.0	28.3	25.2

CONSOLIDATED

YEAR.....	1912	1913	1914	1915
Number of municipalities included..	28	45	69	99
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....		572,154.38	789,130.81	944,271.08
Commercial light service.....		525,438.16	673,803.92	720,209.26
Commercial power service.....		905,378.17	1,214,829.31	1,501,797.78
Municipal power.....				
Street lighting.....		560,925.56	698,409.71	835,970.87
Rural service.....				
Miscellaneous.....		53,543.24	57,482.41	68,046.29
Total earnings.....	1,617,674.00	2,617,439.51	3,433,656.16	4,070,295.28
EXPENSES				
Power purchased.....		789,632.87	1,045,752.65	1,484,666.00
Substation operation.....		78,394.81	97,658.90	107,607.31
Substation maintenance.....		18,698.46	31,790.99	25,935.56
Distribution system, operation and maintenance.....		104,114.51	130,998.65	154,409.71
Line transformer maintenance.....		8,547.61	11,764.32	11,508.92
Meter maintenance.....		5,222.19	9,536.07	12,899.14
Consumers' premises expenses.....		53,108.38	65,192.23	47,494.26
Street lighting, operation and maintenance.....		84,903.76	113,047.80	136,983.38
Promotion of business.....		72,303.51	86,683.02	74,402.55
Billing and collecting.....		77,351.76	103,560.71	131,541.27
General office, salaries and expenses.....		154,932.69	230,899.75	236,777.86
Undistributed expense.....		65,423.64	89,350.91	129,209.15
Interest.....		528,549.21	662,092.34	817,978.89
Sinking fund and principal payments on debentures.....		*	*	*
Total expenses.....	1,377,168.00	2,041,183.40	2,678,328.34	3,371,414.00
Surplus.....	240,506.00	576,256.11	755,327.82	698,881.28
Depreciation and other reserves....	124,992.47	262,675.24	357,883.31	414,506.99
Surplus less depreciation.....	115,513.53	313,580.87	397,444.51	284,374.29

*Debenture payments included in "Interest."

OPERATING REPORT

1916	1917	1918	1919	1920	1921
128	143	166	181	186	205
\$ c. 1,172,878.96 812,130.78 1,921,152.31 930,057.48 147,381.50	\$ c. 1,417,460.31 899,023.72 2,665,280.65 967,495.10 120,805.39	\$ c. 1,632,272.12 968,399.42 3,417,248.37 902,875.55 161,243.70	\$ c. 1,991,632.31 1,175,143.56 3,443,107.13 988,900.95 228,270.65	\$ c. 2,546,345.30 1,512,854.63 3,752,188.22 532,279.09 1,005,535.11 168,919.95 189,778.63	\$ c. 3,149,080.03 1,851,501.76 3,895,437.46 654,531.01 1,060,357.77 145,566.57 225,467.70
4,983,601.03	6,070,065.17	7,082,039.16	7,827,054.60	9,707,900.93	10,981,942.30
1,959,446.83 153,761.08 46,131.53 154,247.17 14,528.17 24,218.48 52,602.01 145,471.50 79,324.85 154,508.58 306,709.35 97,333.97 951,781.99 *	2,573,879.37 203,091.20 42,129.04 169,326.24 25,328.95 44,461.55 61,765.14 157,857.73 73,516.37 188,083.84 349,932.05 102,938.80 1,085,180.80 *	2,807,769.33 238,257.34 60,805.92 223,347.81 30,488.83 63,155.56 65,149.59 196,157.18 64,962.78 208,660.76 421,680.15 117,474.07 1,238,425.53 *	3,284,490.68 217,638.89 81,853.63 286,310.76 42,509.12 78,726.64 84,301.24 215,963.86 74,789.22 236,504.75 452,131.22 190,690.09 1,285,571.51 *	4,216,667.87 285,407.35 102,050.81 344,551.57 46,323.09 123,701.18 116,283.52 236,930.79 78,294.85 295,942.88 559,695.29 256,400.33 1,431,807.16 *	4,876,650.31 314,838.35 104,798.01 487,918.33 65,088.46 116,722.97 134,854.92 297,481.52 101,804.46 321,685.71 656,268.11 308,874.42 998,611.47 532,183.96
4,140,065.51	5,077,491.08	5,736,334.85	6,531,481.61	8,094,056.69	9,317,781.00
843,535.52 486,141.80	992,574.09 607,296.29	1,345,704.31 718,162.30	1,295,572.99 814,219.37	1,613,844.24 902,028.75	1,664,161.30 1,044,434.85
357,393.72	385,277.80	627,542.01	481,353.62	711,815.49	619,726.45

CONSOLIDATED

YEAR.....	1922	1923	1924
Number of municipalities included..	214	224	241
EARNINGS	\$ c.	\$ c.	\$ c.
Domestic service.....	3,786,608.23	5,166,452.24	5,993,231.07
Commercial light service.....	2,153,306.34	3,260,772.50	3,566,227.22
Commercial power service.....	4,383,912.97	5,927,666.37	6,222,865.88
Municipal power.....	973,263.38	1,161,598.60	1,352,966.47
Street lighting.....	1,160,446.81	1,269,604.48	1,356,668.97
Rural service.....	105,877.09	116,639.06	75,100.24
Miscellaneous.....	187,689.39	316,311.21	231,663.58
Total earnings.....	12,756,104.21	17,219,044.46	18,798,723.43
EXPENSES			
Power purchased.....	6,636,853.37	8,699,026.67	9,669,789.40
Substation operation.....	315,443.70	474,442.13	430,056.09
Substation maintenance.....	100,763.67	133,815.53	202,050.04
Distribution system, operation and maintenance.....	519,252.16	636,477.41	648,700.62
Line transformer maintenance.....	52,932.26	75,920.10	82,936.50
Meter maintenance.....	107,806.88	139,104.81	141,231.23
Consumers' premises expenses.....	143,388.88	218,682.02	237,316.20
Street lighting, operation and maintenance.....	297,363.86	299,579.08	269,973.30
Promotion of business.....	129,932.63	184,371.00	202,060.74
Billing and collecting.....	338,153.50	444,306.92	490,273.30
General office, salaries and expenses.	605,852.50	937,463.47	889,907.66
Undistributed expense.....	385,895.03	359,206.91	494,078.50
Truck operation and maintenance.....			
Interest.....	1,074,657.44	1,615,205.16	1,779,991.26
Sinking fund and principal payments on debentures.....	635,469.90	990,907.14	1,122,798.87
Total expenses.....	11,343,765.78	15,208,508.35	16,661,163.71
Surplus.....	1,412,338.43	2,010,536.11	2,137,559.72
Depreciation and other reserves.....	715,814.24	916,782.75	973,649.62
Surplus less depreciation.....	696,524.19	1,093,753.36	1,163,910.10

OPERATING REPORT—Continued

1925	1926	1927	1928	1929
242	248	251	255	259
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,439,159.86	7,372,602.62	8,189,866.89	8,925,050.56	9,873,681.57
3,866,292.79	4,187,899.19	4,626,815.51	5,182,723.32	5,697,766.06
6,568,854.77	6,789,217.54	7,342,173.20	8,298,669.44	9,376,158.74
1,923,093.09	1,922,512.34	1,913,502.88	1,921,300.97	2,086,444.24
1,415,382.22	1,457,686.21	1,489,242.37	1,534,476.98	1,598,262.43
37,975.18	37,810.73	13,765.72	48,451.90*	51,590.54*
286,451.08	471,134.15	581,913.04	465,791.92	522,780.95
20,537,208.99	22,238,862.78	24,157,279.61	26,376,465.09	29,206,684.53
11,063,123.34	12,185,669.10	13,505,583.77	14,688,570.08	16,379,162.88
417,921.71	450,416.84	430,211.76	420,512.48	461,270.27
207,497.63	286,520.37	275,148.86	247,647.88	274,275.56
686,344.54	795,514.70	758,747.10	736,159.85	907,817.04
75,473.28	74,876.11	94,706.38	88,676.18	93,608.14
156,909.55	189,603.70	214,813.87	218,530.96	242,126.27
252,808.47	275,020.62	285,352.68	291,333.03	314,495.03
275,316.60	295,869.37	318,395.79	329,597.16	359,373.40
217,102.24	234,696.74	220,687.60	249,842.01	250,844.28
521,134.01	557,271.54	605,627.58	638,797.02	695,729.42
891,640.29	786,742.60	824,868.90	844,578.55	904,025.64
520,584.58	460,288.30	531,003.80	542,755.34	502,206.06
.....	.....	.....	.....	110,630.62
1,889,810.95	1,985,233.73	2,063,698.00	2,111,049.49	2,152,695.49
1,294,027.29	1,347,511.92	1,505,626.31	1,601,711.32	1,687,201.64
18,469,694.48	19,925,235.64	21,634,472.40	23,009,761.35	25,335,461.74
2,067,514.51	2,313,627.14	2,522,807.21	3,366,703.74	3,871,222.79
1,068,880.42	1,146,273.05	1,249,711.65	1,350,252.16	1,469,846.83
998,634.09	1,167,354.09	1,273,095.56	2,016,451.58	2,401,375.96

*See footnote on page 313.

CONSOLIDATED

YEAR.....	1930	1931	1932
Number of municipalities included..	267	275	280
EARNINGS	\$ c.	\$ c.	\$ c.
Domestic service.....	10,542,903.89	10,972,952.10	11,447,307.85
Commercial light service.....	5,961,383.23	6,230,475.89	6,243,794.01
Commercial power service.....	9,340,653.28	9,456,224.97	9,356,693.88
Municipal power.....	2,111,482.38	1,967,118.54	1,859,585.35
Street lighting.....	1,674,528.03	1,746,855.24	1,783,972.46
Merchandise*.....	28,954.60*	29,446.38*	11,069.27*
Miscellaneous.....	581,914.78	511,139.80	513,787.30
Total earnings.....	30,241,820.19	30,914,212.92	31,216,210.12
EXPENSES			
Power purchased.....	17,323,077.97	18,085,166.51	19,109,036.25
Substation operation.....	479,502.48	487,484.17	503,351.82
Substation maintenance.....	320,716.48	303,536.11	300,186.15
Distribution system, operation and maintenance.....	991,972.86	1,015,256.14	969,750.51
Line transformer maintenance.....	96,746.35	93,463.24	95,485.55
Meter maintenance.....	278,379.43	284,633.88	300,104.85
Consumers' premises expenses.....	317,902.45	363,078.47	368,208.73
Street lighting, operation and maintenance.....	372,211.17	368,119.49	360,709.76
Promotion of business.....	249,070.05	255,956.03	266,760.84
Billing and collecting.....	745,159.02	792,983.99	818,721.33
General office, salaries and expenses.....	907,226.89	923,676.84	960,558.88
Undistributed expense.....	523,862.96	520,893.10	436,692.96
Truck operation and maintenance...	112,029.82	107,918.93	112,059.90
Interest.....	2,220,214.45	2,328,094.32	2,532,940.93
Sinking fund and principal payments on debentures.....	1,828,061.62	2,061,718.79	2,244,367.86
Total expenses.....	26,766,134.00	27,991,980.01	29,378,936.42
Surplus.....	3,475,686.19	2,922,232.91	1,837,273.70
Depreciation and other reserves.....	1,574,991.68	1,775,330.69	1,920,896.22
Surplus less depreciation.....	1,900,694.51	1,146,902.22	83,622.52 (Loss)

OPERATING REPORT—Concluded

1933	1934	1935	1936	1937
282	282	284	283	287
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,429,101.13	11,844,033.10	12,145,219.89	12,682,140.18	12,448,345.63
6,013,025.96	6,206,086.35	6,458,748.57	6,815,439.16	6,510,685.15
9,080,522.07	9,692,784.37	10,211,968.71	10,694,192.44	11,063,764.43
1,826,872.07	1,875,969.80	1,821,285.82	1,817,986.94	1,731,311.34
1,779,582.48	1,777,596.69	1,788,760.38	1,799,420.87	1,781,363.37
12,812.74*	18,747.73*	21,669.98*	23,158.76*	22,971.02*
485,925.43	555,172.04	562,285.82	575,825.49	607,035.54
30,627,841.88	31,970,390.08	33,009,939.17	34,408,163.84	34,165,476.48
19,330,861.58	19,591,887.79	20,053,676.40	20,486,582.65	20,532,736.85
484,764.57	468,944.09	478,813.83	478,855.71	490,737.94
288,583.29	296,550.52	297,127.27	301,897.24	300,389.49
895,350.99	844,813.95	830,633.88	855,576.02	889,990.11
82,321.32	75,172.18	70,749.63	72,711.67	81,365.18
283,115.98	291,402.79	313,234.11	328,410.90	343,658.47
361,499.20	352,499.09	340,761.52	306,644.80	420,366.36
353,082.15	338,784.80	340,120.36	356,932.01	364,325.53
259,936.42	228,741.36	252,648.33	288,338.93	294,574.21
817,660.03	827,860.20	835,375.90	945,892.70	980,540.10
908,517.79	908,039.75	943,880.18	967,269.06	940,890.76
349,101.36	362,322.12	360,676.96	448,332.98	476,370.44
105,452.68	98,081.61	95,150.54	69,805.06	77,995.38
2,426,286.35	2,204,994.25	2,040,130.35	1,893,304.28	1,752,287.58
2,319,319.09	2,358,169.12	2,423,088.34	2,448,223.80	2,429,565.06
29,265,852.80	29,248,263.62	29,686,067.60	30,248,777.81	30,375,793.46
1,361,989.08	2,722,126.46	3,323,871.57	4,159,386.03	3,789,683.02
1,989,000.41	2,036,637.33	2,076,322.24	2,230,021.86	2,329,625.64
627,011.33 (loss)	685,489.13	1,247,549.33	1,929,364.17	1,460,057.38

*Profits from the sale of merchandise. Rural service now given in "Rural Power Districts." Consult Section IX.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig 452	Alvinston	Amherst- burg 2,879
Population.....	1,993	P.V.		643	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,545.45			133.56	
Substation equipment.....	1,847.39				932.00
Distribution system—overhead....	25,157.56	8,686.31	7,609.85	14,118.71	36,570.03
Distribution system—underground..					
Line transformers.....	11,310.93	4,119.68	1,761.29	2,980.49	16,895.43
Meters.....	10,839.34	2,697.14	2,443.67	3,092.08	16,249.92
Street light equipment, regular....	2,012.76	874.51	412.24	1,090.62	812.44
Street light equipment, ornamental..					5,598.72
Miscellaneous construction expense.	3,541.97	147.84	492.36	1,059.06	3,252.98
Steam or hydraulic plant.....					
Old plant.....				773.85	
Total plant.....	56,255.40	16,525.48	12,719.41	23,248.37	80,311.52
Bank and cash balance.....	4,215.04	711.18	5,855.17	1,102.94	11,207.47
Securities and investments.....	6,500.00	5,000.00	5,000.00	8,500.00	
Accounts receivable.....	1,655.71	771.99	1,324.88	820.37	5,574.07
Inventories.....	1,068.27				
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	55,180.77	8,588.06	12,930.98	12,851.89	42,147.91
Other assets.....	208.59				3,743.97
Total assets.....	125,083.78	31,596.71	37,830.44	46,523.57	142,984.94
Deficit.....					
Total.....	125,083.78	31,596.71	37,830.44	46,523.57	142,984.94
LIABILITIES					
Debenture balance.....		775.15		7,637.68	16,186.79
Accounts payable.....		164.09			2,646.13
Bank overdraft.....					
Other liabilities.....	819.70		176.00	55.00	7,880.02
Total liabilities.....	819.70	939.24	176.00	7,692.68	26,712.94
RESERVES					
For equity in H-E.P.C. systems....	55,180.77	8,588.06	12,930.98	12,851.89	42,147.91
For depreciation.....	10,042.52	2,077.31	6,302.40	7,265.14	21,548.17
Other reserves.....				75.00	316.01
Total reserves.....	65,223.29	10,665.37	19,233.38	20,192.03	64,012.09
SURPLUS					
Debentures paid.....	14,500.00	7,297.50	6,883.38	15,891.56	15,866.81
Local sinking fund.....					
Operating surplus.....	44,540.79	12,694.60	11,537.68	2,747.30	36,393.10
Total surplus.....	59,040.79	19,992.10	18,421.06	18,638.86	52,259.91
Total liabilities, reserves and surplus..	125,083.78	31,596.71	37,830.44	46,523.57	142,984.94
Percentage of net debt to total assets..	1.2	4.1	0.7	22.8	22.2

NOTE—In computing the "percentage of net debt to total assets," the ornamental street lighting capital, sinking fund on local debentures, and equity in H-E.P.C. systems, are excluded

"A"

Hydro Municipalities as at December 31, 1937

Ancaster Twp.	Arkona 415	Aylmer 1,995	Ayr 770	Baden P.V.	Beachville P.V.	Beamsville 1,208
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	9,019.23	125.00	660.64	176.13	.....
16,396.90	9,572.99	21,334.95	12,577.30	9,080.10	14,106.51	27,224.00
10,866.90	1,706.44	10,917.47	4,154.96	6,275.00	3,550.21	11,540.00
4,642.17	1,584.70	10,676.54	3,842.34	3,317.85	3,370.72	6,222.00
1,372.59	750.31	1,821.59	610.17	613.66	444.23	2,770.00
922.87	211.99	1,295.22	1,120.54	198.62	602.04	314.85
.....	1,030.30	6,719.17	4,002.53	.....	.....	.....
34,201.43	14,856.73	61,784.17	26,432.84	20,145.87	22,249.84	48,070.85
.....	691.17	5,548.05	1,571.77	1,297.77	2,021.71	266.08
.....	.....	12,000.00	.....	.....	4,000.00	.....
2,132.19	178.18	2,400.78	1,345.19	1,240.19	1,462.60	3,258.53
.....
13,115.01	4,874.10	34,022.57	12,042.74	26,691.31	33,701.66	447.79
.....	.....	.....	.....	.....	.....	668.81
49,448.63	20,600.18	115,755.57	41,392.54	49,375.14	63,435.81	52,712.06
.....	1,200.44	.....	.....	.....	.....	.....
49,448.63	21,800.62	115,755.57	41,392.54	49,375.14	63,435.81	52,712.06
6,571.64	7,155.97	14,282.97	5,366.21	1,153.35	1,275.94	37,500.00
1,142.43	1,147.91	.....	.....	325.26	.....	314.85
1,539.65	.....	.....	.....	.....	.....	.....
232.42	7.17	177.00	8.00	.....	.....	677.81
9,486.14	8,311.05	14,459.97	5,374.21	1,478.61	1,275.94	38,492.66
13,115.01	4,874.10	34,022.57	12,042.74	26,691.31	33,701.66	447.79
8,285.73	2,658.61	14,085.18	5,567.39	2,352.35	7,335.46	10,256.00
.....	.....	658.03	.....	.....	.....	.....
21,400.74	7,532.71	48,765.78	17,610.13	29,043.66	41,037.12	10,703.79
4,217.94	5,956.86	24,418.95	12,137.17	3,846.65	4,077.06	.....
14,343.81	.....	28,110.87	6,271.03	15,006.22	17,045.69	3,515.61
18,561.75	5,956.86	52,529.82	18,408.20	18,852.87	21,122.75	3,515.61
49,448.63	21,800.62	115,755.57	41,392.54	49,375.14	63,435.81	52,712.06
26.1	52.8	17.7	18.3	6.5	4.3	73.7

from assets; and the total liabilities are reduced by the amount of the local sinking fund reserve, and the liability in respect to the ornamental street lighting capital, which amount is included in other liabilities.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Belle River 748	Blenheim	Blyth	Bolton	Bothwell
Population.....	748	1,755	624	569	642
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		60.00			
Substation equipment.....		909.64			
Distribution system—overhead....	17,485.05	28,454.84	11,597.77	10,000.21	6,240.44
Distribution system—underground.					
Line transformers.....	4,408.06	8,776.58	2,449.70	4,688.27	2,492.37
Meters.....	3,906.50	9,989.88	2,195.28	3,165.93	2,961.19
Street light equipment, regular....	1,063.75	3,761.11	1,569.43	856.19	209.51
Street light equipment, ornamental.		1,482.97			4,431.19
Miscellaneous construction expense.	1,085.15	733.12	267.61	1,211.02	501.96
Steam or hydraulic plant.....					
Old plant.....			2,096.17	1,554.60	
Total plant.....	27,948.51	54,168.14	20,175.96	21,476.22	16,836.66
Bank and cash balance.....	2,397.05	4,682.06	3,333.66	1,261.29	4,510.81
Securities and investments.....		5,000.00		3,000.00	11,000.00
Accounts receivable.....	1,592.33	1,925.92	1,314.88	1,302.46	805.64
Inventories.....		1,208.86			24.76
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	8,115.57	30,546.46	7,723.42	14,588.40	14,782.37
Other assets.....					
Total assets.....	40,053.46	97,531.44	32,547.92	41,628.37	47,960.24
Deficit.....					
Total.....	40,053.46	97,531.44	32,547.92	41,628.37	47,960.24
LIABILITIES					
Debenture balance.....		6,316.08	4,496.16	3,576.51	2,255.68
Accounts payable.....	79.10	882.93		50.00	
Bank overdraft.....					
Other liabilities.....	184.00	1,662.97	165.00		1,186.22
Total liabilities.....	263.10	8,861.98	4,661.16	3,626.51	3,441.90
RESERVES					
For equity in H-E.P.C. systems....	8,115.57	30,546.46	7,723.42	14,588.40	14,782.37
For depreciation.....	7,406.45	15,330.56	4,441.62	7,012.31	7,527.84
Other reserves.....	5,000.00	181.82			25.02
Total reserves.....	20,522.02	46,058.84	12,165.04	21,600.71	22,335.23
SURPLUS					
Debentures paid.....	8,500.00	7,683.92	11,536.36	8,923.49	3,278.51
Local sinking fund.....					
Operating surplus.....	10,768.34	34,926.70	4,185.36	7,477.66	18,904.60
Total surplus.....	19,268.34	42,610.62	15,721.72	16,401.15	22,183.11
Total liabilities, reserves and surplus..	40,053.46	97,531.44	32,547.92	41,628.37	47,960.24
Percentage of net debt to total assets..	0.8	11.3	18.8	13.4	8.0

"A"—Continued

Hydro Municipalities as at December 31, 1937

Brampton 5,568	Brantford 31,232	Brantford Twp.	Bridgeport P.V.	Brigden P.V.	Brussels 787	Burford P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,355.12	109,577.31	.....	.....	101.03	.....	202.00
34,176.39	223,817.23	1,192.71	.....	.....	.....	.....
51,199.98	272,161.99	59,009.49	9,864.67	7,288.55	13,699.16	9,289.55
.....
33,202.11	147,908.99	17,474.92	3,275.45	2,060.02	2,402.70	3,121.12
28,734.25	138,842.14	13,569.28	2,438.02	2,366.15	4,092.46	3,493.95
2,731.09	24,428.33	4,739.14	1,605.09	470.43	1,587.79	425.14
.....	38,922.18	.....	.....	.....	.....	.....
19,247.19	31,342.05	2,844.08	627.77	920.57	1,572.29	737.28
.....	7,257.00	.....	.....	1,381.00	2,827.50	.....
.....
174,646.13	994,257.22	98,829.62	17,811.00	14,587.75	26,181.90	17,269.04
50.00	34,039.66	3,613.04	509.60	1,838.40	4,281.12	2,545.43
3,879.67	17,500.00	.....	.....	1,000.00	5,000.00	4,000.00
7,020.92	32,332.07	2,512.23	484.21	502.69	1,013.60	604.22
149.02	10,587.12	.....	.....	.....	.....	.....
.....	4,603.70	.....	.....	.....	.....	.....
137,759.37	723,880.44	25,985.67	4,735.00	9,896.87	10,532.62	11,086.96
.....
323,505.11	1,812,596.51	135,544.26	23,539.81	27,825.71	47,009.24	35,505.65
.....
323,505.11	1,812,596.51	135,544.26	23,539.81	27,825.71	47,009.24	35,505.65
.....
4,645.21	100,000.00	8,779.31	9,294.18	.....	8,778.32	.....
2,695.12	423.04	.....	221.99	.....	1,757.34	.....
4,049.01	.....	.....	.....	.....	.....	.....
140.00	57,150.85	1,811.16	158.55	25.00	11.23	52.08
.....
11,529.34	157,573.89	10,590.47	9,674.72	25.00	10,546.89	52.08
.....
137,759.37	723,880.44	25,985.67	4,735.00	9,896.87	10,532.62	11,086.96
53,599.61	330,337.20	24,950.69	5,667.77	4,547.90	6,491.35	5,548.27
192.29	7,939.30	98.77	.....	76.38	.....	.....
.....
191,551.27	1,062,156.94	51,035.13	10,402.77	14,521.15	17,023.97	16,635.23
.....
64,405.43	430,000.00	48,346.35	3,073.85	8,000.00	12,221.68	9,000.00
.....	4,603.70	.....	.....	.....	.....	.....
56,019.07	162,865.68	20,968.61	388.47	5,279.56	7,216.70	9,818.34
.....
120,424.50	592,865.68	73,918.66	3,462.32	13,279.56	19,438.38	18,818.34
.....
323,505.11	1,812,596.51	135,544.26	23,539.81	27,825.71	47,009.24	35,505.65
.....
6.2	11.4	5.7	51.5	0.1	28.9	0.2

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Burgess- ville P.V.	Caledonia	Campbell- ville P.V.	Cayuga	Chatham
Population.....		1,370		674	15,910
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		177.34			80,660.86
Substation equipment.....					124,712.92
Distribution system—overhead....	3,578.93	18,575.48	2,982.19	14,995.69	151,780.71
Distribution system—underground..					83,264.11
Line transformers.....	1,384.40	6,473.62	820.55	3,402.17	84,799.56
Meters.....	1,025.98	6,917.76	602.20	3,170.81	71,011.04
Street light equipment, regular....	261.02	1,582.94	335.61	960.89	18,877.79
Street light equipment, ornamental..					35,426.10
Miscellaneous construction expense.	457.22	1,078.43	45.82	644.72	34,416.57
Steam or hydraulic plant.....					
Old plant.....					42,752.31
Total plant.....	6,707.55	34,805.57	4,786.37	23,174.28	727,701.97
Bank and cash balance.....	104.54	1,322.47	718.28	1,182.15	23,591.98
Securities and investments.....		2,000.00	1,000.00	1,500.00	10,000.00
Accounts receivable.....	10.48	802.95	457.30	1,534.17	37,773.29
Inventories.....				664.78	6,039.94
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	4,415.99	18,195.73	1,968.95	7,541.92	320,462.33
Other assets.....					
Total assets.....	11,238.56	57,126.72	8,930.90	35,597.30	1,125,569.51
Deficit.....					
Total.....	11,238.56	57,126.72	8,930.90	35,597.30	1,125,569.51
LIABILITIES					
Debenture balance.....		665.39	2,400.80	9,510.94	177,161.39
Accounts payable.....	45.53		5.89	64.23	13,903.44
Bank overdraft.....					
Other liabilities.....		9.50		125.00	41,925.72
Total liabilities.....	45.53	674.89	2,406.69	9,700.17	232,990.55
RESERVES					
For equity in H-E.P.C. systems....	4,415.99	18,195.73	1,968.95	7,541.92	320,462.33
For depreciation.....	2,773.23	2,446.53	1,073.84	5,105.06	164,834.25
Other reserves.....				16.21	17,810.63
Total reserves.....	7,189.22	20,642.26	3,042.79	12,663.19	503,107.21
SURPLUS					
Debentures paid.....	3,500.00	3,958.61	3,046.97	10,489.06	192,838.61
Local sinking fund.....					
Operating surplus.....	503.81	31,850.96	434.45	2,744.88	196,633.14
Total surplus.....	4,003.81	35,809.57	3,481.42	13,233.94	389,471.75
Total liabilities, reserves and surplus..	11,238.56	57,126.72	8,930.90	35,597.30	1,125,569.51
Percentage of net debt to total assets.	0.7	1.7	34.6	34.6	25.6

"A"—Continued

Hydro Municipalities as at December 31, 1937

Chippawa 1,187	Clifford 441	Clinton 1,865	Comber P.V.	Cottam P.V.	Courtright 286	Dashwood P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,431.37		8,760.82	62.00			
		7,598.09				
20,313.31	7,796.31	24,662.49	7,507.07	9,513.84	6,539.99	3,499.11
6,289.06	1,077.29	9,599.23	3,606.34	1,903.31	1,225.40	2,400.81
5,282.33	2,368.74	10,140.78	2,554.23	1,798.79	880.37	1,548.87
3,545.46	774.83	5,631.85	423.35	366.43	425.08	353.42
2,057.96	37.44	4,074.22	1,037.63	232.54	558.67	291.87
		10,658.09				
38,919.49	12,054.61	81,125.57	15,190.62	13,814.91	9,629.51	8,094.08
914.20	1,595.22	2,511.86	2,946.14	3,018.58	1,462.96	987.08
		3,000.00	3,000.00	3,000.00		1,500.00
510.45	412.04	1,800.02	833.09	277.61	239.04	583.00
		2,752.25				
		37,136.56				
14,059.30	5,466.76	38,117.37	15,718.68	3,298.69	4,610.14	6,939.79
54,403.44	19,528.63	166,443.63	37,688.53	23,409.79	15,941.65	18,103.95
54,403.44	19,528.63	166,443.63	37,688.53	23,409.79	15,941.65	18,103.95
2,912.87	5,980.35	40,500.00	617.56	5,235.88	756.55	1,626.46
1,196.62		515.25	28.06	28.50		16.40
402.00		378.81	32.00	190.00		
4,511.49	5,980.35	41,394.06	677.62	5,454.38	756.55	1,642.86
14,059.30	5,466.76	38,117.37	15,718.68	3,298.69	4,610.14	6,939.79
7,770.98	2,475.83	25,119.63	6,181.34	3,962.63	1,662.78	2,679.77
		575.04				
21,830.28	7,942.59	63,812.04	21,900.02	7,261.32	6,272.92	9,619.56
10,437.13	2,019.65	4,000.00	7,082.44	3,764.34	7,381.80	1,773.54
		37,136.56				
17,624.54	3,586.04	20,100.97	8,028.45	6,929.75	1,530.38	5,067.99
28,061.67	5,605.69	61,237.53	15,110.89	10,694.09	8,912.18	6,841.53
54,403.44	19,528.63	166,443.63	37,688.53	23,409.79	15,941.65	18,103.95
11.2	42.5	4.7	3.1	27.0	6.7	14.7

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Delaware	Dorchester	Drayton	Dresden	Drumbo
Population.....	P.V.	P.V.	566	1,468	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				523.00	
Substation equipment.....					
Distribution system—overhead....	3,986.62	9,046.58	9,830.74	19,137.05	4,663.92
Distribution system—underground..					
Line transformers.....	1,001.44	3,046.56	3,376.80	7,508.37	1,651.50
Meters.....	1,038.41	2,481.13	3,413.98	6,376.17	1,863.92
Street light equipment, regular....	202.58	685.39	772.21	1,127.48	262.27
Street light equipment, ornamental..					
Miscellaneous construction expense.	203.81	407.54	430.53	1,530.50	235.58
Steam or hydraulic plant.....					
Old plant.....				4,815.01	
Total plant.....	6,432.86	15,667.20	17,824.26	41,017.58	8,677.19
Bank and cash balance.....	848.38	803.96	1,170.74	1,421.43	5,738.68
Securities and investments.....	3,000.00	2,000.00	5,000.00	2,500.00	
Accounts receivable.....	676.34	544.32	546.32	6,334.58	216.51
Inventories.....				647.72	
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	2,481.34	6,042.22	10,077.55	25,820.37	5,274.32
Other assets.....					
Total assets.....	13,438.92	25,057.70	34,618.87	77,741.68	19,906.70
Deficit.....					
Total.....	13,438.92	25,057.70	34,618.87	77,741.68	19,906.70
LIABILITIES					
Debenture balance.....	1,506.27	1,808.33	5,079.68		1,693.84
Accounts payable.....	89.78		709.77	1,148.93	
Bank overdraft.....					
Other liabilities.....		30.50		203.00	
Total liabilities.....	1,596.05	1,838.83	5,789.45	1,351.93	1,693.84
RESERVES					
For equity in H-E.P.C. systems....	2,481.34	6,042.22	10,077.55	25,820.37	5,274.32
For depreciation.....	1,334.06	2,785.97	6,942.09	5,651.70	4,120.76
Other reserves.....	30.00	64.15		267.44	
Total reserves.....	3,845.40	8,892.34	17,019.64	31,739.51	9,395.08
SURPLUS					
Debentures paid.....	2,493.73	2,491.67	4,420.32	16,238.25	2,806.16
Local sinking fund.....					
Operating surplus.....	5,503.74	11,834.86	7,389.46	28,411.99	6,011.62
Total surplus.....	7,997.47	14,326.53	11,809.78	44,650.24	8,817.78
Total liabilities, reserves and surplus.	13,438.92	25,057.70	34,618.87	77,741.68	19,906.70
Percentage of net debt to total assets.	14.6	9.7	23.6	2.5	11.6

“A”—Continued

Hydro Municipalities as at December 31, 1937

Dublin P.V.	Dundas 4,757	Dunnville 4,001	Dutton 776	East York Twp.	Elmira 2,063	Elora 1,138
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	12,111.11	3,356.09	75.11	17,018.18	7,421.01	1,524.54
.....	13,396.22	27,507.57	.....	8,893.55	.....	.....
5,902.30	50,692.95	39,066.78	9,177.94	300,831.78	35,020.09	17,478.75
.....
839.38	19,870.42	19,920.78	3,654.29	84,483.25	15,215.67	7,704.49
969.04	19,999.86	18,043.36	3,447.56	145,750.10	12,799.43	6,011.13
544.86	11,113.78	8,012.37	659.31	21,810.66	1,428.86	1,245.99
.....	1,154.52	.....	.....	.....	.....	.....
787.06	8,023.44	6,825.24	317.03	20,974.77	3,271.44	1,030.77
.....
.....	1,867.38	10,717.62	.....	.....	2,168.08	1,425.47
.....
9,042.64	138,229.68	133,449.81	17,331.24	599,762.29	77,324.58	36,421.14
.....
821.84	28,772.54	7,143.24	1,043.24	25,408.06	1,208.70	340.46
.....	1,500.00	10,000.00	5,000.00	2,812.91	8,000.00	7,000.00
201.68	3,677.82	3,311.80	744.21	12,248.16	2,619.05	1,506.21
.....	246.15	367.60	17.57	10,118.81	.....	512.92
.....
4,752.31	115,084.26	49,449.03	16,141.91	205,824.60	64,495.87	30,936.66
.....	28.33	.....	.....	.....	.....	112.49
.....
14,818.47	287,538.78	203,721.48	40,278.17	856,174.83	153,648.20	76,829.88
428.82	.....	.....	.....	.....	.....	.....
.....
15,247.29	287,538.78	203,721.48	40,278.17	856,174.83	153,648.20	76,829.88
.....
.....	16,363.88	38,445.97	.....	196,274.66	17,365.73	675.73
165.39	647.39	.....	.....	39,925.61	.....	1,668.74
.....
.....	6,594.57	1,665.00	137.36	16,822.80	730.89	49.25
.....
165.39	23,605.84	40,110.97	137.36	253,023.07	18,096.62	2,393.72
.....
.....
4,752.31	115,084.26	49,449.03	16,141.91	205,824.60	64,495.87	30,936.66
4,129.59	56,347.65	35,299.59	7,885.38	85,118.72	22,519.93	14,235.07
.....	164.38	.....	34.22	5,828.72	.....	.....
.....
8,881.90	171,596.29	84,748.62	24,061.51	296,772.04	87,015.80	45,171.73
.....
.....
6,200.00	36,636.12	37,054.03	8,407.49	160,793.12	19,802.77	12,324.27
.....
.....	55,700.53	41,807.86	7,671.81	145,586.60	28,733.01	16,940.16
.....
6,200.00	92,336.65	78,861.89	16,079.30	306,379.72	48,535.78	29,264.43
.....
15,247.29	287,538.78	203,721.48	40,278.17	856,174.83	153,648.20	76,829.88
.....
1.6	13.1	26.0	0.6	38.9	20.3	5.2

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Embro	Erieau	Erie Beach	Essex
Population.....	449	238	26	1,798
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				
Substation equipment.....				
Distribution system—overhead.....	10,202.41	10,634.09	2,351.91	38,733.77
Distribution system—underground.....				442.55
Line transformers.....	3,039.64	1,861.67	902.85	17,161.02
Meters.....	2,183.75	2,872.97	766.30	11,699.59
Street light equipment, regular.....	535.73	341.06		1,554.70
Street light equipment, ornamental.....				7,205.06
Miscellaneous construction expense.....	185.68	379.90	375.03	1,574.30
Steam or hydraulic plant.....				
Old plant.....	429.25			
Total plant.....	16,576.46	16,089.69	4,396.09	78,370.99
Bank and cash balance.....	635.53	690.17	597.12	4,999.64
Securities and investments.....	3,000.00			10,000.00
Accounts receivable.....	873.07	841.41	352.07	2,261.93
Inventories.....				
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	9,300.21	4,951.12	1,224.86	24,472.12
Other assets.....				657.43
Total assets.....	30,385.27	22,572.39	6,570.14	120,762.11
Deficit.....				
Total.....	30,385.27	22,572.39	6,570.14	120,762.11
LIABILITIES				
Debenture balance.....	1,198.90	3,033.28	1,957.15	16,819.72
Accounts payable.....	74.69	446.38	38.32	
Bank overdraft.....				
Other liabilities.....		40.00		7,862.49
Total liabilities.....	1,273.59	3,519.66	1,995.47	24,682.21
RESERVES				
For equity in H-E.P.C. systems.....	9,300.21	4,951.12	1,224.86	24,472.12
For depreciation.....	6,106.99	3,082.32	513.31	17,628.80
Other reserves.....	50.00	74.16		384.13
Total reserves.....	15,457.20	8,107.60	1,738.17	42,485.05
SURPLUS				
Debentures paid.....	6,301.10	3,849.85	1,342.85	5,680.28
Local sinking fund.....				
Operating surplus.....	7,353.38	7,095.28	1,493.65	47,914.57
Total surplus.....	13,654.48	10,945.13	2,836.50	53,594.85
Total liabilities, reserves and surplus.....	30,385.27	22,572.39	6,570.14	120,762.11
Percentage of net debt to total assets.....	6.0	20.0	37.3	19.6

“A”—Continued

Hydro Municipalities as at December 31, 1937

Etobicoke Twp.	Exeter 1,629	Fergus 2,785	Fonthill 803	Forest 1,586	Forest Hill 9,147	Galt 14,119	George- town 2,189
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
27,194.47	3,335.73	.....	.....	6,447.40	8,241.28	201,705.30	673.81
291,630.10	30,077.22	34,877.65	11,420.95	20,699.42	42,617.79	113,578.70	.....
80,699.02	11,484.35	19,842.39	5,066.12	10,085.26	4,323.87	117,780.57	19,754.40
61,790.18	8,371.71	13,321.81	4,547.27	10,115.44	451.26	71,571.67	14,431.57
12,567.50	4,693.43	2,588.89	1,074.40	2,399.99	1,329.51	71,871.85	4,328.70
2,689.44	.....	1,288.29	.....	.....	.....	.....	.....
22,788.41	3,130.69	1,015.70	240.65	924.70	5,580.99	27,159.74	3,256.87
.....	.....	2,546.59	3,500.00	11,042.87	.....	.....	2,209.80
499,359.12	61,093.13	75,481.32	25,849.39	61,715.08	107,103.84	852,999.55	77,774.78
.....	2,909.72	854.74	1,164.73	1,303.79	140,637.47	19,860.01	3,369.53
.....	13,000.00	.....	.....	15,500.00	.....	43,000.00	6,926.01
9,980.23	2,545.82	6,655.83	649.15	4,261.14	.....	40,189.33	4,939.13
6,614.76	1,450.82	86.99	.....	2,087.89	.....	20,581.85	.....
158,208.69	33,835.17	47,494.52	4,804.30	25,837.27	.....	78,994.30	.....
.....	.....	922.03	.....	.....	4,837.89	443,034.26	82,297.20
674,162.80	114,834.66	131,495.43	32,467.57	110,705.17	252,579.20	186.13	.....
.....
674,162.80	114,834.66	131,495.43	32,467.57	110,705.17	252,579.20	1,498,845.43	175,306.65
132,313.53	3,864.43	13,691.63	12,237.12	6,874.38	250,000.00	189,974.71	7,144.74
21,990.76	291.80	3,562.28	446.05	19.42	2,579.20	20,512.37	19.64
7,427.97	.....	.....	.....	.....	.....	.....	.....
9,075.03	261.50	1,313.29	284.30	60.06	.....	1,450.93	777.56
170,807.29	4,417.73	18,567.20	12,967.47	6,953.86	252,579.20	211,938.01	7,941.94
158,208.69	33,835.17	47,494.52	4,804.30	25,837.27	.....	443,034.26	82,297.20
96,565.44	14,325.08	11,734.90	2,399.60	16,501.75	.....	284,647.33	21,765.94
496.77	540.71	350.00	.....	43.20	.....	30,083.83	.....
255,270.90	48,700.96	59,579.42	7,203.90	42,382.22	.....	757,765.42	104,063.14
133,381.87	16,135.62	28,308.37	10,262.88	27,525.62	.....	328,027.32	12,855.26
.....	.....	.....	.....	.....	.....	78,994.30	.....
114,702.74	45,580.35	25,040.44	2,033.32	33,843.47	.....	122,120.38	50,446.31
248,084.61	61,715.97	53,348.81	12,296.20	61,369.09	.....	529,142.00	63,301.57
674,162.80	114,834.66	131,495.43	32,467.57	110,705.17	252,579.20	1,498,845.43	175,306.65
32.7	5.4	20.9	46.8	8.2	100.0	13.6	8.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Glencoe	Goderich	Granton	Guelph	Hagersville
Population.....	778	4,336	P.V.	21,455	1,345
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	3,230.35	13,569.89	.....	13,380.18	.....
Substation equipment.....	.....	34,402.48	.....	173,784.49	864.37
Distribution system—overhead....	21,053.31	68,976.23	4,341.93	233,261.98	20,681.20
Distribution system—underground..	.....	.....	.....	.....	.....
Line transformers.....	6,555.23	19,929.36	1,696.30	97,688.38	10,555.11
Meters.....	4,299.65	19,879.55	1,529.92	100,509.46	9,047.00
Street light equipment, regular....	1,735.09	9,194.89	180.78	43,136.96	1,040.67
Street light equipment, ornamental.	.....	.....	.....	.....	.....
Miscellaneous construction expense.	3,565.97	6,892.04	113.08	29,967.60	635.46
Steam or hydraulic plant.....	.....	.....	.....	.....	.....
Old plant.....	.....	14,622.15	.....	.....	.....
Total plant.....	40,439.60	187,466.59	7,862.01	691,729.05	42,823.81
Bank and cash balance.....	4,771.30	20,380.21	3,484.08	9,859.58	5,385.74
Securities and investments.....	.....	8,500.00	2,000.00	.....	16,000.00
Accounts receivable.....	3,012.18	4,128.70	542.70	27,771.27	1,205.51
Inventories.....	336.60	1,114.12	.....	20,043.18	.....
Sinking fund on local debentures....	.....	.....	.....	4,512.04	.....
Equity in H-E.P.C. systems.....	16,368.81	100,629.49	6,717.80	538,267.86	64,225.45
Other assets.....	.....	.....	.....	288.75	.....
Total assets.....	64,928.49	322,219.11	20,606.59	1,292,471.73	129,640.51
Deficit.....	.....	.....	.....	.....	.....
Total.....	64,928.49	322,219.11	20,606.59	1,292,471.73	129,640.51
LIABILITIES	.....	.....	.....	.....	.....
Debenture balance.....	4,063.69	39,931.62	1,579.29	5,000.00	1,981.08
Accounts payable.....	76.16	2,229.26	140.68	20,763.27	.....
Bank overdraft.....	.....	.....	.....	.....	.....
Other liabilities.....	56.36	2,173.79	.....	2,801.08	290.00
Total liabilities.....	4,196.21	44,334.67	1,719.97	28,564.35	2,271.08
RESERVES	.....	.....	.....	.....	.....
For equity in H-E.P.C. systems....	16,368.81	100,629.49	6,717.80	538,267.86	64,225.45
For depreciation.....	10,768.56	76,302.83	3,093.61	149,622.56	11,131.75
Other reserves.....	325.80	872.77	60.00	2,290.42	.....
Total reserves.....	27,463.17	177,805.09	9,871.41	690,180.84	75,357.20
SURPLUS	.....	.....	.....	.....	.....
Debentures paid.....	16,049.19	56,156.43	1,920.71	139,999.99	6,018.92
Local sinking fund.....	.....	.....	.....	4,512.04	.....
Operating surplus.....	17,219.92	43,922.92	7,094.50	429,214.51	45,993.31
Total surplus.....	33,269.11	100,079.35	9,015.21	573,726.54	52,012.23
Total liabilities, reserves and surplus..	64,928.49	322,219.11	20,606.59	1,292,471.73	129,640.51
Percentage of net debt to total assets..	8.6	20.1	12.4	3.2	3.4

“A”—Continued

Hydro Municipalities as at December 31, 1937

Hamilton 154,020	Harriston 1,273	Harrow 918	Hensall 719	Hespeler 2,861	Highgate 327	Humber- stone 2,563
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
945,746.70	395.25	2,047.78	.....	4,573.03	.....	.....
1,952,840.22	600.00	.....	.....	39,910.26	.....	.....
1,207,657.82	22,267.49	17,612.33	12,456.99	30,662.60	6,397.77	26,242.17
844,868.10	.....	.....	.....	.....	.....	.....
867,040.49	8,170.04	10,078.81	4,428.42	20,749.50	2,109.25	9,228.53
699,555.06	7,884.73	6,435.14	3,544.95	12,709.26	1,781.31	8,574.77
280,055.98	1,356.00	852.85	612.83	7,285.90	453.91	884.80
.....
237,563.90	904.38	1,016.88	632.06	967.39	491.60	3,386.64
.....
30,145.08	1,001.43	.....	400.00	.....	.....	.....
.....
7,065,473.35	42,579.32	38,043.79	22,075.25	116,857.94	11,233.84	48,316.91
.....
111,615.19	2,486.65	295.31	1,836.58	12,768.40	1,689.01	9,869.41
.....	3,000.00	.....	7,000.00	.....	3,000.00	.....
274,558.45	1,031.32	2,262.26	960.68	3,036.88	346.77	854.67
161,370.58	.....	504.54	.....	425.95	.....	.....
429,707.64	.....	.....	.....	.....	.....	.....
3,642,406.53	27,476.64	18,915.01	13,126.36	89,677.02	8,116.61	16,136.67
83,858.13	.....	.....	200.00	.....	.....	.....
.....
11,768,989.87	76,573.93	60,020.91	45,198.87	222,766.19	24,386.23	75,177.66
.....
11,768,989.87	76,573.93	60,020.91	45,198.87	222,766.19	24,386.23	75,177.66
.....
2,297,278.83	7,461.93	3,044.03	5,103.15	26,730.66	.....	13,400.00
246,038.73	.....	1,182.67	688.05	183.34	27.14	.....
.....
*1,047,856.82	.....	399.26	33.00	5.00	60.00	1,528.88
.....
3,591,174.38	7,461.93	4,625.96	5,824.20	26,919.00	87.14	14,928.88
.....
3,642,406.53	27,476.64	18,915.01	13,126.36	89,677.02	8,116.61	16,136.67
1,120,823.05	9,130.43	5,108.61	8,626.23	17,356.26	4,777.53	5,050.65
388,674.22	.....	144.19	.....	279.73	.....	.....
.....
5,151,903.80	36,607.07	24,167.81	21,752.59	107,313.01	12,894.14	21,187.32
.....
1,921,746.29	18,356.10	8,955.97	6,896.85	50,839.85	5,000.00	18,600.00
429,707.64	.....	.....	.....	.....	.....	.....
674,457.76	14,148.83	22,271.17	10,725.23	37,694.33	6,404.95	20,461.46
.....
3,025,911.69	32,504.93	31,227.14	17,622.08	88,534.18	11,404.95	39,061.46
.....
11,768,989.87	76,573.93	60,020.91	45,198.87	222,766.19	24,386.23	75,177.66
.....
41.7	15.2	11.3	18.2	20.2	0.5	25.3

*Includes a balance of \$1,000,000.00 on purchase agreement.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Ingersoll	Jarvis	Kingsville	Kitchener	Lambeth
Population.....	5,139	504	2,282	32,650	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	15,064.45		7,774.09	231,938.06	
Substation equipment.....	33,283.83			252,794.03	
Distribution system—overhead....	55,958.42	9,756.66	32,478.22	345,348.17	7,326.75
Distribution system—underground..				44,245.42	
Line transformers.....	29,320.37	3,151.56	13,653.07	185,828.53	1,883.12
Meters.....	25,538.87	2,701.84	14,225.77	199,623.03	2,490.61
Street light equipment, regular....	4,685.02	929.54	1,439.82	69,231.22	1,052.75
Street light equipment, ornamental.	4,597.59		19,200.00	115,682.08	
Miscellaneous construction expense.	10,494.80	663.55	1,137.47	21,031.78	354.62
Steam or hydraulic plant.....					
Old plant.....	19,098.54			52,363.91	
Total plant.....	198,041.89	17,203.15	89,908.44	1,518,086.23	13,107.85
Bank and cash balance.....	3,089.81	1,458.68	6,013.45	30,055.42	1,176.46
Securities and investments.....	11,716.57	4,000.00	13,000.00	15,000.00	2,000.00
Accounts receivable.....	3,701.77	657.70	2,591.72	54,110.17	454.80
Inventories.....	1,485.86		225.82	13,297.99	
Sinking fund on local debentures...	80,949.85				
Equity in H-E.P.C. systems.....	150,490.20	12,006.47	32,099.27	1,039,730.09	7,839.02
Other assets.....			2,427.53	863.98	
Total assets.....	449,475.95	35,326.00	146,266.23	2,671,143.88	24,578.13
Deficit.....					
Total.....	449,475.95	35,326.00	146,266.23	2,671,143.88	24,578.13
LIABILITIES					
Debenture balance.....	79,800.00	4,389.26	25,498.93	123,761.80	
Accounts payable.....	946.90		50.82	104,227.51	736.15
Bank overdraft.....					
Other liabilities.....	6,195.32	40.00	21,627.53	116,669.18	95.00
Total liabilities.....	86,942.22	4,429.26	47,177.28	344,658.49	831.15
RESERVES					
For equity in H-E.P.C. systems....	150,490.20	12,006.47	32,099.27	1,039,730.09	7,839.02
For depreciation.....	26,031.77	3,802.99	21,840.89	338,220.30	4,095.07
Other reserves.....	926.78		298.75	28,969.32	45.24
Total reserves.....	177,448.75	15,809.46	54,238.91	1,406,919.71	11,979.33
SURPLUS					
Debentures paid.....		6,110.74	8,001.07	388,388.20	4,000.00
Local sinking fund.....	80,949.85				
Operating surplus.....	104,135.13	8,976.54	36,848.97	531,177.48	7,767.65
Total surplus.....	185,084.98	15,087.28	44,850.04	919,565.68	11,767.65
Total liabilities, reserves and surplus.	449,475.95	35,326.00	146,266.23	2,671,143.88	24,578.13
Percentage of net debt to total assets.	0.6	19.0	29.5	15.1	5.0

“A”—Continued

Hydro Municipalities as at December 31, 1937

La Salle 782	Leamington 5,340	Listowel 2,819	London 73,091	London Twp. 4,099	Long Branch 4,099	Lucan 613
1,383.58	16,990.75	1,459.49	454,908.69			
.....	7,085.62	.....	967,160.27	.....	.....	.....
20,174.04	51,588.89	41,540.17	809,321.10	19,320.12	53,894.44	10,867.25
.....	11,991.15	4,236.96	321,912.64	.....	.....	.....
6,745.26	23,468.09	20,338.53	340,709.08	6,789.70	13,454.85	4,610.64
4,188.88	24,142.00	16,840.39	357,610.26	4,999.07	17,965.96	3,558.53
946.49	1,380.13	2,483.53	71,664.13	1,452.50	4,514.77	430.15
.....	15,178.49	1,348.66	92,286.12	.....	.....	.....
1,850.67	2,377.35	2,075.95	168,287.49	1,502.84	2,130.96	555.22
.....	.....	4,745.30	.....	1,733.80	.....	2,860.45
35,288.92	154,202.47	95,068.98	3,583,859.78	35,798.03	91,960.98	22,882.24
6,712.73	26,888.33	2,227.15	44,290.34	1,548.74	4,576.89	1,738.94
.....	23,813.81	7,000.00	.....	2,000.00	.....	8,000.00
1,231.20	4,850.50	4,184.76	239,455.31	1,991.33	1,232.75	390.07
.....	79.84	77.76	103,026.00	.....	.....	.....
.....	.....	.....	424,589.52	.....	.....	.....
10,991.47	64,664.59	61,491.53	1,877,748.37	14,788.59	16,933.05	15,253.19
555.03	.....	.....	2,284.86	.....	.....	.....
54,779.35	274,499.54	170,050.18	6,275,254.18	56,126.69	114,703.67	48,264.44
.....
54,779.35	274,499.54	170,050.18	6,275,254.18	56,126.69	114,703.67	48,264.44
8,391.67	23,361.48	2,097.40	669,823.63	5,611.29	16,613.23	3,153.22
1,704.48	125.17	2,719.16	86,971.70	2,181.84	1,138.06	0.67
.....
555.03	18,117.89	1,621.89	94,285.49	338.71	2,693.66	282.22
10,651.18	41,604.54	6,438.45	851,080.82	8,131.84	20,444.95	3,436.11
10,991.47	64,664.59	61,491.53	1,877,748.37	14,788.59	16,933.05	15,253.19
8,539.29	32,437.54	37,144.84	1,095,762.73	7,097.97	19,595.41	9,683.72
271.27	173.33	.....	109,662.35	36.87	154.69	.....
19,802.03	97,275.46	98,636.37	3,083,173.45	21,923.43	36,683.15	24,936.91
7,108.33	24,638.52	41,092.49	912,076.37	13,388.71	23,691.37	8,060.40
.....	.....	.....	424,589.52	.....	.....	.....
17,217.81	110,981.02	23,882.87	1,004,334.02	12,682.71	33,884.20	11,831.02
24,326.14	135,619.54	64,975.36	2,340,999.91	26,071.42	57,575.57	19,891.42
54,779.35	274,499.54	170,050.18	6,275,254.18	56,126.69	114,703.67	48,264.44
24.3	13.6	4.7	8.6	20.0	20.9	10.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Lynden	Markham	Merlin	Merritton	Milton
Population.....	P.V.	1,112	P.V.	2,543	1,785
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	241.18			6,575.31	
Substation equipment.....				67,314.45	16,418.16
Distribution system—overhead....	4,809.73	16,216.61	8,453.21	37,805.23	23,412.66
Distribution system—underground.					
Line transformers.....	2,166.63	8,436.15	3,801.48	9,254.15	15,184.64
Meters.....	1,912.74	5,967.77	2,224.42	11,767.10	14,214.47
Street light equipment, regular....	354.06	750.76	560.17	4,676.11	4,983.63
Street light equipment, ornamental.					
Miscellaneous construction expense.	283.57	1,610.43	455.36	3,222.63	4,395.72
Steam or hydraulic plant.....					
Old plant.....			241.85		3,092.54
Total plant.....	9,767.91	32,981.72	15,736.49	140,614.98	81,701.82
Bank and cash balance.....	2,108.77	2,649.11	2,031.85	2,754.45	2,419.66
Securities and investments.....		7,000.00	6,000.00		4,000.00
Accounts receivable.....	482.19	740.05	654.97	2,031.67	6,688.99
Inventories.....				25.50	4,681.65
Sinking fund on local debentures....					
Equity in H-E.P.C. systems.....	11,211.44	14,661.15	9,863.34	103,072.69	83,803.26
Other assets.....					
Total assets.....	23,570.31	58,032.03	34,286.65	248,499.29	183,295.38
Deficit.....					
Total.....	23,570.31	58,032.03	34,286.65	248,499.29	183,295.38
LIABILITIES					
Debenture balance.....	1,959.48		4,633.05	13,175.47	5,105.14
Accounts payable.....	23.85		541.10	15,000.00	903.41
Bank overdraft.....					
Other liabilities.....		204.28	80.00		308.58
Total liabilities.....	1,983.33	204.28	5,254.15	28,175.47	6,317.13
RESERVES					
For equity in H-E.P.C. systems....	11,211.44	14,661.15	9,863.34	103,072.69	83,803.26
For depreciation.....	3,306.60	6,858.75	3,574.35	14,437.00	19,497.16
Other reserves.....		73.24	23.40		1,386.93
Total reserves.....	14,518.04	21,593.14	13,461.09	117,509.69	104,687.35
SURPLUS					
Debentures paid.....	2,535.52	11,373.63	8,731.16	19,010.74	27,941.27
Local sinking fund.....					
Operating surplus.....	4,533.42	24,860.98	6,840.25	83,803.39	44,349.63
Total surplus.....	7,068.94	36,234.61	15,571.41	102,814.13	72,290.90
Total liabilities, reserves and surplus..	23,570.31	58,032.03	34,286.65	248,499.29	183,295.38
Percentage of net debt to total assets..	16.0	0.5	21.5	19.4	6.3

“A”—Continued

Hydro Municipalities as at December 31, 1937

Milverton 987	Mimico 6,876	Mitchell 1,577	Moorefield P.V.	Mount Brydges P.V.	Newbury 276	New Hamburg 1,464
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
237.20	17,077.41	23,058.94				2,513.19
	38,461.02	19,487.83				1,217.05
12,182.71	76,541.97	30,670.25	3,086.96	7,235.98	6,489.00	23,811.33
8,101.30	34,509.60	9,205.66	1,211.63	2,305.43	1,797.86	7,173.44
5,297.89	29,380.88	12,285.53	1,280.31	2,628.60	1,295.15	9,080.92
765.09	8,297.01	7,736.24	295.88	710.02	866.47	2,181.40
760.31	7,118.75	1,365.79	348.35	260.25	502.54	1,676.21
		1,500.00			348.22	5,242.56
27,344.50	211,386.64	105,310.24	6,223.13	13,140.28	11,299.24	52,896.10
2,399.97	20,868.80	4,152.11	2,051.62	3,624.92	1,773.17	1,434.42
2,000.00		1,000.00		3,000.00		5,000.00
972.97	4,398.98	8,654.77	224.72	977.16	1,117.82	2,067.04
		4,018.37				658.37
36,233.34	112,767.41	35,800.76	5,148.56	6,082.29	3,734.18	40,348.95
68,950.78	349,421.83	158,936.25	13,648.03	26,824.65	17,924.41	102,404.88
68,950.78	349,421.83	158,936.25	13,648.03	26,824.65	17,924.41	102,404.88
	59,365.76			1,650.14	2,300.00	3,188.79
942.97	3,033.10	1,155.46		11.69	3.15	
	5,857.82	144.00		152.62	30.00	271.50
942.97	68,256.68	1,299.46		1,814.45	2,333.15	3,460.29
36,233.34	112,767.41	35,800.76	5,148.56	6,082.29	3,734.18	40,348.95
6,829.03	56,049.75	42,756.68	2,710.93	3,409.30	3,470.68	14,657.65
	1,382.70	1,337.25		100.00		34.51
43,062.37	170,199.86	79,894.69	7,859.49	9,591.59	7,204.86	55,041.11
9,500.00	67,634.24	22,295.22	4,500.00	2,569.86	7,454.39	14,540.29
15,445.44	43,331.05	55,446.88	1,288.54	12,848.75	932.01	29,363.19
24,945.44	110,965.29	77,742.10	5,788.54	15,418.61	8,386.40	43,903.48
68,950.78	349,421.83	158,936.25	13,648.03	26,824.65	17,924.41	102,404.88
2.9	28.8	1.1	0.0	8.7	16.4	5.5

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	New Toronto 6,848	Niagara Falls 18,747	Niagara-on- the-Lake 1,563	North York Twp.
Population.....				
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	44,097.67	132,324.59	2,307.35	28,392.13
Substation equipment.....		228,586.00	16,048.36	
Distribution system—overhead....	85,970.46	193,495.29	31,884.74	375,929.89
Distribution system—underground..	8,605.69			
Line transformers.....	34,211.55	165,000.87	8,746.40	103,665.32
Meters.....	34,977.72	109,068.31	8,894.67	54,543.24
Street light equipment, regular....	12,172.38	119,864.91	1,352.39	156.00
Street light equipment, ornamental..				13,491.21
Miscellaneous construction expense.	7,507.85	10,153.89	2,233.21	29,102.94
Steam or hydraulic plant.....				
Old plant.....		19,589.37		
Total plant.....	227,543.32	978,083.23	71,467.12	605,280.73
Bank and cash balance.....	8,618.57	106,333.62	5,583.72	24,622.54
Securities and investments.....				
Accounts receivable.....	13,772.34	12,538.56	4,918.42	8,912.34
Inventories.....		17,675.12	2,304.44	254.33
Sinking fund on local debentures....				
Equity in H-E.P.C. systems.....	349,833.96	466,411.03	24,800.90	99,786.84
Other assets.....				
Total assets.....	599,768.19	1,581,041.56	109,074.60	738,856.78
Deficit.....				
Total.....	599,768.19	1,581,041.56	109,074.60	738,856.78
LIABILITIES				
Debenture balance.....	2,641.45	239,000.79	16,996.00	299,043.38
Accounts payable.....	1,693.50	6,277.43	36.24	61,508.89
Bank overdraft.....				
Other liabilities.....	6,498.90	15,875.97	210.00	22,065.87
Total liabilities.....	10,833.85	261,154.19	17,242.24	382,618.14
RESERVES				
For equity in H-E.P.C. systems....	349,833.96	466,411.03	24,800.90	99,786.84
For depreciation.....	53,741.74	213,190.18	14,599.94	90,983.87
Other reserves.....	1,356.65	14,481.90	1,281.17	
Total reserves.....	404,932.35	694,083.11	40,682.01	190,770.71
SURPLUS				
Debentures paid.....	5,358.55	451,242.21	19,505.42	143,978.49
Local sinking fund.....				
Operating surplus.....	178,643.44	174,562.05	31,644.93	21,489.44
Total surplus.....	184,001.99	625,804.26	51,150.35	165,467.93
Total liabilities, reserves and surplus..	599,768.19	1,581,041.56	109,074.60	738,856.78
Percentage of net debt to total assets..	4.3	23.4	20.5	59.0

“A”—Continued

Hydro Municipalities as at December 31, 1937

Norwich 1,174	Oil Springs 472	Otterville P.V.	Palmerston 1,410	Paris 4,315	Parkhill 997	Petrolia 2,720	Plattsville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,638.76	1,524.68			8,487.50		900.00	
11,232.39	13,182.37	7,525.41	1,346.28	28,126.55		5,956.75	
			31,869.37	55,115.46	16,039.71	45,218.56	4,347.54
6,847.08	5,234.39	3,804.91	9,604.81	22,381.47	4,359.83	29,035.16	1,890.66
7,335.98	3,378.78	2,538.16	7,505.18	20,039.73	4,153.82	15,517.85	1,994.88
4,685.64	308.24	1,525.03	6,679.87	14,059.22	995.06	6,324.44	147.15
2,185.71	2,166.86	142.00	1,976.13	2,851.75	1,298.29	5,855.42	535.92
3,509.82			4,018.71			3,389.94	
40,435.38	25,795.32	15,535.51	63,000.35	151,061.68	26,846.71	112,198.12	8,916.15
1,515.38	5,164.62	3,846.17		7,160.18	1,568.57	11,075.51	2,261.33
5,000.00	1,640.26			28,500.00	3,000.00	8,400.00	2,000.00
3,768.51	917.91	1,257.65	299.81	1,020.59	1,309.88	7,432.93	575.84
2,275.40	82.82		3,205.55			524.69	
29,951.10	20,485.35	6,924.22	34,623.98	91,343.28	15,089.49	82,554.07	7,263.74
	24.00						
82,945.77	54,110.28	27,563.55	101,129.69	279,085.73	47,814.65	222,185.32	21,017.06
82,945.77	54,110.28	27,563.55	101,129.69	279,085.73	47,814.65	222,185.32	21,017.06
3,466.47			1,885.80	6,270.34	2,116.00	15,254.82	1,971.55
268.97	30.58		4,494.27	166.67		2,957.58	91.36
			686.19				
250.00	24.00	46.25	397.50		105.00	907.50	
3,985.44	54.58	46.25	7,463.76	6,437.01	2,221.00	19,119.90	2,062.91
29,951.10	20,485.35	6,924.22	34,623.98	91,343.28	15,089.49	82,554.07	7,263.74
7,545.49	8,672.24	5,121.12	6,309.41	72,705.78	7,892.72	33,977.33	3,718.98
840.52	90.03		405.89	175.00		978.17	
38,337.11	29,247.62	12,045.34	41,339.28	164,224.06	22,982.21	117,509.57	10,982.72
10,289.53	16,721.31	4,500.00	25,114.20	85,729.66	12,514.02	34,745.18	3,265.45
30,333.69	8,086.77	10,971.96	27,212.45	22,695.00	10,097.42	50,810.67	4,705.98
40,623.22	24,808.08	15,471.96	52,326.65	108,424.66	22,611.44	85,555.85	7,971.43
82,945.77	54,110.28	27,563.55	101,129.69	279,085.73	47,814.65	222,185.32	21,017.06
7.5	0.2	0.2	11.2	3.4	6.8	13.7	15.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Point Edward 1,252	Port Colborne 6,196	Port Credit 1,755	Port Dalhousie 1,459	Port Dover 1,665
Population					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings					
Substation equipment		22,561.01	675.00		248.75
Distribution system—overhead	21,445.99	92,345.57	25,841.57	19,283.05	32,667.49
Distribution system—underground					
Line transformers	6,746.18	29,265.60	11,221.58	10,621.12	11,864.38
Meters	5,117.40	24,238.65	9,824.04	9,819.25	8,468.53
Street light equipment, regular	3,091.41	4,549.26	4,922.71	1,041.19	2,673.13
Street light equipment, ornamental		16,611.59			
Miscellaneous construction expense	503.14	6,281.60	3,008.65	3,644.89	3,096.44
Steam or hydraulic plant					
Old plant		9,929.60		6,018.38	
Total plant	36,904.12	205,782.88	55,493.55	50,427.88	59,018.72
Bank and cash balance	390.95	1,466.33	3,127.62	3,125.27	4,012.52
Securities and investments	13,000.00	1,500.00		3,000.00	
Accounts receivable	3,476.72	20,028.53	4,840.44	3,876.03	3,087.57
Inventories		4,721.39			
Sinking fund on local debentures				3,922.23	
Equity in H-E.P.C. systems	43,960.26	75,319.21	31,109.23	27,092.45	19,886.59
Other assets	295.71				20.00
Total assets	98,027.76	308,818.34	94,570.84	91,443.86	86,025.40
Deficit					
Total	98,027.76	308,818.34	94,570.84	91,443.86	86,025.40
LIABILITIES					
Debenture balance	4,867.16	62,582.90	5,728.38	6,836.31	5,176.03
Accounts payable		312.93	3,355.22	1,421.06	1,830.87
Bank overdraft					
Other liabilities	295.71	20,693.53	585.00	128.00	653.00
Total liabilities	5,162.87	83,589.36	9,668.60	8,385.37	7,659.90
RESERVES					
For equity in H-E.P.C. systems	43,960.26	75,319.21	31,109.23	27,092.45	19,886.59
For depreciation	12,645.33	42,935.93	17,460.43	7,421.31	11,361.62
Other reserves	133.05	3,209.64	337.23	926.31	
Total reserves	56,738.64	121,464.78	48,906.89	35,440.07	31,248.21
SURPLUS					
Debentures paid	12,132.84	83,417.10	8,771.62	15,663.69	23,823.97
Local sinking fund				3,922.23	
Operating surplus	23,993.41	20,347.10	27,223.73	28,032.50	23,293.32
Total surplus	36,126.25	103,764.20	35,995.35	47,618.42	47,117.29
Total liabilities, reserves and surplus	98,027.76	308,818.34	94,570.84	91,443.86	86,025.40
Percentage of net debt to total assets	9.5	35.8	15.2	7.4	11.6

“A”—Continued

Hydro Municipalities as at December 31, 1937

Port Rowan 666	Port Stanley 741	Preston 6,294	Princeton P.V.	Queenston P.V.	Richmond Hill 1,268	Ridgetown 1,983
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	1,574.60	55,740.10	.....	.....	600.00	1,024.24
9,404.56	22,218.55	90,200.85	4,314.69	8,347.06	10,715.78	22,783.38
.....
1,667.07	12,670.02	49,740.08	2,473.48	2,772.26	9,040.60	9,935.62
2,122.45	10,729.46	39,332.55	1,271.35	1,568.03	5,637.32	9,706.09
890.49	2,036.64	5,442.53	207.93	422.43	1,334.77	3,774.13
.....	.....	.....	.....	.....	.....	1,431.73
693.53	7,362.08	10,057.74	64.35	2,322.94	541.05	1,892.74
.....
.....	577.51	32,126.75	.....	.....	.....	5,088.46
14,778.10	57,168.86	282,640.60	8,331.80	15,432.72	27,869.52	55,636.39
2,073.21	2,200.10	37,762.75	5,612.72	781.48	2,496.36	4,327.52
.....	8,000.00	.....	.....	.....	.....	11,000.00
1,279.09	1,904.30	7,581.84	1,009.78	200.94	1,388.89	2,033.25
17.79	.....	4,066.84	.....	.....	288.83	371.01
.....
5,276.99	32,146.35	212,525.29	7,213.76	5,452.46	14,466.52	33,728.27
.....
23,425.18	101,419.61	544,577.32	22,168.06	21,867.60	46,510.12	107,096.44
.....
23,425.18	101,419.61	544,577.32	22,168.06	21,867.60	46,510.12	107,096.44
.....
7,058.55	3,688.87	32,894.80	1,336.36	3,483.96	2,117.31	4,737.23
8.20	.....	10,482.55	.....	.....	80.80	1,062.94
.....
120.00	105.01	685.34	.....	5.00	344.92	2,028.91
.....
7,186.75	3,793.88	44,062.69	1,336.36	3,488.96	2,543.03	7,829.08
.....
5,276.99	32,146.35	212,525.29	7,213.76	5,452.46	14,466.52	33,728.27
2,964.97	13,277.86	121,369.65	3,034.44	3,880.75	2,624.40	15,387.23
.....	75.23	599.48	.....	.....	.....	275.00
8,241.96	45,499.44	334,494.42	10,248.20	9,333.21	17,090.92	49,390.50
.....
3,941.45	15,261.13	119,905.20	2,213.64	6,016.04	10,082.69	14,718.76
.....
4,055.02	36,865.16	46,115.01	8,369.86	3,029.39	16,793.48	35,158.10
.....
7,996.47	52,126.29	166,020.21	10,583.50	9,045.43	26,876.17	49,876.86
.....
23,425.18	101,419.61	544,577.32	22,168.06	21,867.60	46,510.12	107,096.44
.....
39.5	5.5	13.3	8.9	21.3	7.9	8.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Riverside	Rockwood	Rodney	St. Catharines	St. Clair Beach
Population.....	5,017	P. V.	724	26,834	100
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	2,528.73	79.00		52,499.01	
Substation equipment.....				116,094.51	
Distribution system—overhead....	91,840.85	7,888.67	11,087.71	227,120.89	8,087.48
Distribution system—underground.					
Line transformers.....	32,246.00	2,662.83	2,890.98	151,818.02	2,880.61
Meters.....	23,358.02	3,113.63	3,663.07	96,532.72	1,552.72
Street light equipment, regular....		694.18	692.92	20,135.21	
Street light equipment, ornamental.	17,030.71			29,486.71	
Miscellaneous construction expense.	6,748.92	484.34	728.06	26,401.20	298.24
Steam or hydraulic plant.....					
Old plant.....			700.00	17,507.89	
Total plant.....	173,753.23	14,922.65	19,762.74	737,596.16	12,819.05
Bank and cash balance.....	654.26	1,381.30	3,418.03	51,601.78	1,238.25
Securities and investments.....			2,000.00	20,000.00	
Accounts receivable.....	17,316.30	414.88	432.59	45,493.97	641.12
Inventories.....	96.72	120.40		11,747.87	
Sinking fund on local debentures....				81,099.91	
Equity in H-E.P.C. systems.....	65,359.06	9,100.35	10,499.11	445,725.45	5,321.02
Other assets.....	443.66			406.86	
Total assets.....	257,623.23	25,939.58	36,112.47	1,393,672.00	20,019.44
Deficit.....					
Total.....	257,623.23	25,939.58	36,112.47	1,393,672.00	20,019.44
LIABILITIES					
Debenture balance.....	36,450.65	1,985.73		163,250.00	2,078.26
Accounts payable.....	2,649.99	1.60	55.05	31,132.90	165.52
Bank overdraft.....					
Other liabilities.....	19,423.39	56.00	210.00	29,876.21	66.59
Total liabilities.....	58,524.03	2,043.33	265.05	224,259.11	2,310.37
RESERVES					
For equity in H-E.P.C. systems....	65,359.06	9,100.35	10,499.11	445,725.45	5,321.02
For depreciation.....	37,118.45	5,628.25	2,948.99	185,052.92	3,667.93
Other reserves.....	4,837.34		46.00	5,967.88	262.67
Total reserves.....	107,314.85	14,728.60	13,494.10	636,746.25	9,251.62
SURPLUS					
Debentures paid.....	46,049.35	2,514.27	8,500.00	138,772.91	4,263.19
Local sinking fund.....				81,099.91	
Operating surplus.....	45,735.00	6,653.38	13,853.32	312,793.82	4,194.26
Total surplus.....	91,784.35	9,167.65	22,353.32	532,666.64	8,457.45
Total liabilities, reserves and surplus..	257,623.23	25,939.58	36,112.47	1,393,672.00	20,019.44
Percentage of net debt to total assets..	23.6	12.1	1.0	17.1	15.7

“A”—Continued

Hydro Municipalities as at December 31, 1937

St. George P.V.	St. Jacobs P.V.	St. Marys 4,023	St. Thomas 16,088	Sarnia 18,230	Scarboro Twp.	Seaforth 1,717
.....	.....	3,000.00	78,651.96	112,146.86	17,273.95	1,836.39
.....	.....	27,077.99	118,758.31	208,408.83	301.95	5,999.16
5,899.85	6,803.82	59,818.82	107,916.76	219,437.62	288,303.13	31,003.26
.....	.....	52,815.87	.....	.....	.....	.....
2,729.42	3,407.40	23,328.77	58,275.31	79,450.51	64,357.19	11,015.60
3,129.49	3,025.70	23,735.39	73,220.08	75,405.33	68,662.28	10,491.78
286.41	368.97	6,219.05	21,669.17	26,154.53	20,147.73	3,716.97
.....	.....	.....	3,693.04	8,271.83	.....	.....
374.18	602.71	6,968.26	9,657.69	23,696.65	8,587.05	1,025.66
.....
.....	.....	20,696.85	.....	55,445.72	.....	.....
12,419.35	14,208.60	170,845.13	524,658.19	808,417.88	467,633.28	65,088.82
1,872.99	.....	4,872.02	1,657.93	12,793.22	155,981.83	4,174.04
.....	3,000.00	10,000.00	55,000.00	100,000.00	2,680.00	100.00
847.31	698.40	6,567.64	18,086.19	32,899.04	17,881.29	2,989.17
.....	.....	1,652.72	11,542.10	21,954.41	.....	1,348.15
.....	.....	1,776.14	.....	.....	.....	.....
11,336.69	12,315.05	108,389.51	390,893.08	491,410.68	140,503.65	50,816.21
.....	7.91	59.65	1,200.00	5,429.44	.....	.....
26,476.34	30,229.96	304,162.81	1,003,037.49	1,472,904.67	784,680.05	124,516.39
.....
26,476.34	30,229.96	304,162.81	1,003,037.49	1,472,904.67	784,680.05	124,516.39
2,354.45	.....	31,266.68	1,762.44	56,576.69	131,560.00	.....
12.80	500.87	310.53	4,287.26	.....	118,497.69	.....
.....	127.22	.....	.....	.....	.....	.....
149.50	.....	160.00	14,468.55	13,701.27	31,364.22	158.00
2,516.75	628.09	31,737.21	20,518.25	70,277.96	281,421.91	158.00
11,336.69	12,315.05	108,389.51	390,893.08	491,410.68	140,503.65	50,816.21
3,048.21	3,538.46	60,256.52	145,798.21	177,134.41	101,958.67	23,296.50
.....	.....	601.82	455.00	2,167.80	3,393.33	583.26
14,384.90	15,853.51	169,247.85	537,146.29	670,712.89	245,855.65	74,695.97
3,645.55	6,000.00	82,980.34	137,181.63	281,423.31	159,008.27	25,000.00
.....	.....	1,776.14	.....	.....	.....	.....
5,929.14	7,748.36	18,421.27	308,191.32	450,490.51	98,394.22	24,662.42
9,574.69	13,748.36	103,177.75	445,372.95	731,913.82	257,402.49	49,662.42
26,476.34	30,229.96	304,162.81	1,003,037.49	1,472,904.67	784,680.05	124,516.39
16.6	3.5	15.4	2.7	6.4	43.7	0.2

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Simcoe	Springfield	Stamford Twp.	Stouffville
Population.....	5,614	365		1,155
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	9,757.66		7,196.71	
Substation equipment.....	30,879.97		37,384.60	
Distribution system—overhead....	52,848.10	8,141.26	134,170.97	12,893.51
Distribution system—underground.	1,412.24			
Line transformers.....	30,089.63	2,374.19	48,088.64	4,175.67
Meters.....	28,841.12	2,119.11	34,794.71	4,763.51
Street light equipment, regular....	6,616.91	558.91	9,788.00	1,604.52
Street light equipment, ornamental.	3,500.00			
Miscellaneous construction expense.	5,763.93	685.08	9,485.22	557.78
Steam or hydraulic plant.....				
Old plant.....	927.92		13,743.66	
Total plant.....	170,637.48	13,878.55	294,652.51	23,994.99
Bank and cash balance.....	28,053.53	1,815.45	7,422.10	3,189.17
Securities and investments.....	5,000.00	4,500.00		8,000.00
Accounts receivable.....	4,801.95	752.85	23,610.63	1,220.03
Inventories.....	3,783.50		6,049.61	
Sinking fund on local debentures....				
Equity in H-E.P.C. systems.....	79,708.11	7,578.08	75,615.78	12,636.48
Other assets.....			433.60	43.16
Total assets.....	291,984.57	28,524.93	407,784.23	49,083.83
Deficit.....				
Total.....	291,984.57	28,524.93	407,784.23	49,083.83
LIABILITIES				
Debenture balance.....	41,511.50	2,838.25	122,771.77	1,553.78
Accounts payable.....	680.62	101.51	13,147.00	14.94
Bank overdraft.....				
Other liabilities.....	3,710.00	37.00	4,884.52	100.00
Total liabilities.....	45,902.12	2,976.76	140,803.29	1,668.72
RESERVES				
For equity in H-E.P.C. systems....	79,708.11	7,578.08	75,615.78	12,636.48
For depreciation.....	22,407.88	3,708.89	45,552.84	3,810.09
Other reserves.....	5,000.00		3,360.06	
Total reserves.....	107,115.99	11,286.97	124,528.68	16,446.57
SURPLUS				
Debentures paid.....	33,923.40	6,661.75	117,506.40	13,120.12
Local sinking fund.....				
Operating surplus.....	105,043.06	7,599.45	24,945.86	17,848.42
Total surplus.....	138,966.46	14,261.20	142,452.26	30,968.54
Total liabilities, reserves and surplus..	291,984.57	28,524.93	407,784.23	49,083.83
Percentage of net debt to total assets..	20.3	14.2	42.4	4.6

“A”—Continued

Hydro Municipalities as at December 31, 1937

Stratford 17,555	Strathroy 2,911	Streets- ville 636	Sutton 831	Swansea 5,504	Tavistock 1,034	Tecumseh 2,432	Thames- ford P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
138,889.22	8,856.05	2,038.47	.....	.....	262.29	1,018.51	.....
121,656.74	23,219.34	1,172.04	.....	.....	.....	.....	.....
154,827.02	50,389.39	8,507.59	20,579.42	56,556.85	13,523.68	35,269.49	7,757.33
8,404.93	.....	.....	.....	.....	.....	.....	.....
103,088.62	22,734.26	4,948.80	7,460.31	43,194.30	9,657.35	11,316.12	3,251.85
84,464.30	16,365.95	2,804.92	6,246.85	28,386.50	5,295.95	10,712.82	2,955.32
22,989.11	5,863.19	1,054.40	1,822.11	4,940.99	1,078.48	.....	298.97
.....	.....	.....	2,679.70	.....	.....	4,760.95	.....
22,972.68	3,953.76	680.53	.....	6,209.56	974.90	2,195.76	522.30
.....	.....	10,641.55	.....	.....	.....	.....	.....
31,520.00	12,343.15	.....	675.00	.....	.....	.....	.....
688,812.62	143,725.09	31,848.30	39,463.39	139,288.20	30,792.65	65,273.65	14,785.77
35,010.23	7,328.14	6,308.71	838.07	4,972.41	2,613.30	4,941.25	109.71
90,000.00	17,000.00	.....	.....	.....	2,299.53	.....	8,500.00
28,857.37	9,491.78	750.62	2,895.52	1,552.49	1,656.86	3,549.98	941.23
8,779.53	1,720.26	.....	.....	.....	.....	.....	.....
232,024.42	.....	.....	.....	.....	.....	.....	.....
485,791.38	69,715.16	1,103.95	12,172.68	.....	35,801.46	20,283.37	13,563.62
.....	64.84	.....	174.27	8,338.21	.....	.....	.....
1,569,275.55	249,045.27	40,011.58	55,543.93	154,151.31	73,163.80	94,048.25	37,900.33
.....
1,569,275.55	249,045.27	40,011.58	55,543.93	154,151.31	73,163.80	94,048.25	37,900.33
340,000.00	27,839.44	13,130.07	10,122.65	83,909.78	2,774.30	8,591.87	1,025.58
249.02	.....	.....	716.21	7,704.85	593.01	8,199.67	49.33
.....
5,273.91	660.59	148.87	.....	240.00	.....	5,758.74	70.00
345,522.93	28,500.03	13,278.94	10,838.86	91,854.63	3,367.31	22,550.28	1,144.91
485,791.38	69,715.16	1,103.95	12,172.68	.....	35,801.46	20,283.37	13,563.62
283,200.14	34,273.73	3,071.88	7,958.11	38,860.74	10,591.95	13,808.45	5,517.45
5,020.84	558.15	24.92	.....	.....	.....	1,596.47	.....
774,012.36	104,547.04	4,200.75	20,130.79	38,860.74	46,393.41	35,688.29	19,081.07
115,800.00	38,392.56	4,415.01	15,877.35	18,403.97	3,225.70	17,408.13	4,332.45
232,024.42	.....	.....	.....	.....	.....	.....	.....
101,915.84	77,605.64	18,116.88	8,696.93	5,031.97	20,177.38	18,401.55	13,341.90
449,740.26	115,998.20	22,531.89	24,574.28	23,435.94	23,403.08	35,809.68	17,674.35
1,569,275.55	249,045.27	40,011.58	55,543.93	154,151.31	73,163.80	94,048.25	37,900.33
13.3	15.9	34.1	24.9	59.6	9.0	25.8	4.7

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Thames- ville 788	Thedford 585	Thorn- dale P.V.	Thorold 4,959	Tilbury 1,992
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	681.69			9,892.59	969.46
Substation equipment.....					
Distribution system—overhead....	12,600.95	9,414.11	3,573.69	34,277.37	16,151.97
Distribution system—underground..					
Line transformers.....	5,158.60	3,392.91	1,595.95	19,206.02	12,761.37
Meters.....	4,024.51	2,338.26	1,809.51	21,162.12	7,337.97
Street light equipment, regular....	1,379.42	885.46	181.19	2,895.84	1,029.37
Street light equipment, ornamental..					
Miscellaneous construction expense.	580.96	1,565.61	310.45	3,445.90	1,684.50
Steam or hydraulic plant.....				13,380.93	
Old plant.....	4,445.68	433.78		3,800.00	3,049.47
Total plant.....	28,871.81	18,030.13	7,470.79	108,060.77	42,984.11
Bank and cash balance.....	3,668.23	1,132.85	863.03	6,921.14	4,223.69
Securities and investments.....	5,000.00	2,500.00		20,000.00	15,000.00
Accounts receivable.....	1,199.71	779.67	939.12	999.81	2,182.20
Inventories.....				1,384.27	33.55
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	13,872.20	7,430.40	6,960.14	75,996.93	36,799.69
Other assets.....					
Total assets.....	52,611.95	29,873.05	16,233.08	213,362.92	101,223.24
Deficit.....					
Total.....	52,611.95	29,873.05	16,233.08	213,362.92	101,223.24
LIABILITIES					
Debenture balance.....		4,984.67	1,039.09		4,023.56
Accounts payable.....		132.10	334.47	86.61	258.80
Bank overdraft.....					
Other liabilities.....	203.00	29.31	32.50	1,978.50	200.00
Total liabilities.....	203.00	5,146.08	1,406.06	2,065.11	4,482.36
RESERVES					
For equity in H-E.P.C. systems....	13,872.20	7,430.40	6,960.14	75,996.93	36,799.69
For depreciation.....	8,718.91	3,755.53	3,594.53	29,855.16	13,116.94
Other reserves.....	95.72		22.88		128.53
Total reserves.....	22,686.83	11,185.93	10,577.55	105,852.09	50,045.16
SURPLUS					
Debentures paid.....	11,187.80	11,515.33	2,047.39	5,000.00	9,976.44
Local sinking fund.....					
Operating surplus.....	18,534.32	2,025.71	2,202.08	100,445.72	36,719.28
Total surplus.....	29,722.12	13,541.04	4,249.47	105,445.72	46,695.72
Total liabilities, reserves and surplus.	52,611.95	29,873.05	16,233.08	213,362.92	101,223.24
Percentage of net debt to total assets.	0.5	22.9	15.2	1.5	7.0

“A”—Continued

Hydro Municipalities as at December 31, 1937

Tillsonburg 3,702	Toronto 645,462	Toronto Twp.	Trafalgar Twp. Area No. 1	Trafalgar Twp. Area No. 2	Wallaceburg 4,660	Wardsville 249
4,824.27	5,430,512.92	6,366.13			37,746.29	
15,677.20	14,637,360.58				9,651.80	
45,678.58	6,406,376.38	193,059.82	22,209.55	12,044.51	58,443.80	5,180.12
	4,133,538.61					
18,277.12	3,604,625.15	64,205.57	9,731.56	2,376.94	35,622.82	1,501.32
19,247.08	3,139,698.47	36,544.21	5,152.37	1,674.86	20,797.12	1,308.68
11,957.61	499,121.85	3,717.44			10,879.63	519.36
3,995.93	2,635,168.93	8,056.85	1,998.50	358.41	3,390.24	509.73
	3,570,474.01	619.65			20,941.07	193.94
119,657.79	44,056,876.90	312,569.67	39,091.98	16,454.72	197,472.77	9,213.15
7,460.80	740,620.18	24,113.18	2,554.88	1,711.68	18,210.57	206.81
11,000.00	1,055,604.69	10,000.00	4,000.00	4,000.00	15,000.00	
5,036.60	2,013,529.75	1,516.24	333.84	226.59	12,267.09	1,817.90
2,930.84	519,200.73				8,520.47	
	7,379,060.12					
69,106.04	15,431,836.92	81,878.22	1,059.33	328.23	148,403.64	2,883.29
	10,995.83					
215,192.07	71,207,725.12	430,077.31	47,040.03	22,721.22	399,874.54	14,121.15
215,192.07	71,207,725.12	430,077.31	47,040.03	22,721.22	399,874.54	14,121.15
5,521.13	20,959,096.69	39,313.67	8,360.42	9,461.15	31,878.39	2,416.65
66.60	1,543,588.33	10,121.18	779.83	106.63	570.10	
3,273.74	199,025.75	2,711.26			2,328.98	100.00
8,861.47	22,701,710.77	52,146.11	9,140.25	9,567.78	34,777.47	2,516.65
69,106.04	15,431,836.92	81,878.22	1,059.33	328.23	148,403.64	2,883.29
37,170.29	8,515,548.28	118,927.02	15,836.46	2,182.60	55,242.12	2,777.74
834.93	1,211,388.31	862.42			1,315.09	
107,111.26	25,158,773.51	201,667.66	16,895.79	2,510.83	204,960.85	5,661.03
30,478.87	13,492,210.09	64,686.33	11,065.99		39,658.19	5,145.75
	7,379,060.12					
68,740.47	2,475,970.63	111,577.21	9,938.00	10,642.61	120,478.03	797.72
99,219.34	23,347,240.84	176,263.54	21,003.99	10,642.61	160,136.22	5,943.47
215,192.07	71,207,725.12	430,077.31	47,040.03	22,721.22	399,874.54	14,121.15
6.1	31.7	15.0	19.9	42.7	13.8	22.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Water- down 875	Water ford 1,250	Waterloo 8,266	Watford 941	Welland 10,540
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	200.00		14,454.37		74,326.45
Substation equipment.....			64,031.18		69,936.19
Distribution system—overhead....	15,833.82	16,164.58	96,047.15	17,105.64	134,669.24
Distribution system—underground..					7,475.04
Line transformers.....	6,525.83	7,796.87	44,744.09	6,995.90	58,600.38
Meters.....	6,061.12	6,117.95	38,138.94	5,628.73	58,455.03
Street light equipment, regular....	583.81	3,231.62	14,218.91	807.31	4,265.01
Street light equipment, ornamental..			3,106.80		36,513.75
Miscellaneous construction expense.	180.25	619.22	13,345.63	2,274.18	11,302.88
Steam or hydraulic plant.....					
Old plant.....			23,880.17	657.44	49,952.19
Total plant.....	29,384.83	33,930.24	311,967.24	33,469.20	505,496.16
Bank and cash balance.....	6,866.91	2,142.45	5,712.88	1,982.57	3,910.67
Securities and investments.....		5,300.00	35,000.00	6,800.00	9,200.87
Accounts receivable.....	1,733.27	856.02	1,914.65	1,788.00	29,489.01
Inventories.....			382.70	152.10	14,650.07
Sinking fund on local debentures....			14,414.15		104,801.15
Equity in H-E.P.C. systems.....	18,534.80	25,530.97	206,217.60	17,987.66	236,044.07
Other assets.....					145.37
Total assets.....	56,519.81	67,759.68	575,609.22	62,179.53	903,737.37
Deficit.....					
Total.....	56,519.81	67,759.68	575,609.22	62,179.53	903,737.37
LIABILITIES					
Debenture balance.....			34,131.37		171,239.66
Accounts payable.....	8.12		917.45		407.21
Bank overdraft.....					
Other liabilities.....	109.78		3,106.80	157.00	44,263.22
Total liabilities.....	117.90		38,155.62	157.00	215,910.09
RESERVES					
For equity in H-E.P.C. systems....	18,534.80	25,530.97	206,217.60	17,987.66	236,044.07
For depreciation.....	8,086.42	11,843.80	121,325.54	8,592.39	137,390.29
Other reserves.....			313.12	19.61	3,679.11
Total reserves.....	26,621.22	37,374.77	327,856.26	26,599.66	377,113.47
SURPLUS					
Debentures paid.....	8,000.00	7,745.53	71,868.63	9,713.21	107,770.96
Local sinking fund.....			14,414.15		104,801.15
Operating surplus.....	21,780.69	22,639.38	123,314.56	25,709.66	98,141.70
Total surplus.....	29,780.69	30,384.91	209,597.34	35,422.87	310,713.81
Total liabilities, reserves and surplus..	56,519.81	67,759.68	575,609.22	62,179.53	903,737.37
Percentage of net debt to total assets..	0.3	0.0	6.7	0.4	14.2

“A”—Continued

Hydro Municipalities as at December 31, 1937

Wellesley P.V.	West Lorne 769	Weston 5,028	Wheatley 724	Windsor 101,435	Woodbridge 763	Woodstock 11,040
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	11,903.31	.....	491,494.13	.....	38,310.90
.....	.....	50,082.03	.....	1,058,762.86	.....	110,557.90
7,264.74	11,865.40	60,972.86	15,676.55	1,223,100.73	17,025.06	113,858.86
.....	.....	.....	.....	143,207.47	.....	.....
2,175.97	4,326.79	37,518.20	4,242.44	543,591.20	6,510.77	60,150.59
2,571.82	3,490.90	25,192.90	4,007.13	501,848.51	4,653.87	57,993.47
545.11	749.80	29,861.70	1,690.74	53,676.42	473.15	15,569.65
.....	.....	.....	.....	1,021,495.33	.....	.....
273.57	347.14	11,467.15	938.46	195,632.29	1,017.73	9,495.40
.....
.....	1,250.00	.....	2,569.50	167,579.04	.....	.....
12,831.21	22,030.03	226,998.15	29,124.82	5,400,387.98	29,680.58	405,936.77
1,274.46	2,588.32	17,681.93	2,337.32	144,201.57	3,518.04	29,341.87
1,000.00	.....	.....	5,500.00	347,952.17	.....	84,000.00
571.95	138.60	3,058.47	1,190.68	253,590.92	2,038.66	5,519.29
.....	.....	323.18	61.92	128,469.22	.....	1,070.88
.....	.....	.....	.....	45,865.92	.....	36,602.83
13,523.31	21,205.55	184,792.77	10,237.93	2,420,187.40	23,804.44	311,573.47
.....	.....	.....	40.00	.....	.....	.....
29,200.93	45,962.50	432,854.50	48,492.67	8,740,655.18	59,041.72	874,045.11
.....
29,200.93	45,962.50	432,854.50	48,492.67	8,740,655.18	59,041.72	874,045.11
.....	.....	24,628.11	5,434.30	1,115,652.67	3,704.71	41,696.31
.....	360.32	7,277.76	797.32	88,305.44	1,601.25	295.67
.....
.....	107.25	2,568.07	30.00	1,126,285.12	384.01	7,002.86
.....
.....	467.57	34,473.94	6,261.62	2,330,243.23	5,689.97	48,994.84
13,523.31	21,205.55	184,792.77	10,237.93	2,420,187.40	23,804.44	311,573.47
3,255.68	8,185.13	47,862.12	5,159.99	968,382.85	10,134.66	170,011.21
.....	25.76	996.59	.....	251,497.91	.....	16,158.69
16,778.99	29,416.44	233,651.48	15,397.92	3,640,068.16	33,939.10	497,743.37
7,500.00	8,000.00	45,404.33	7,565.70	1,468,179.39	4,795.26	85,689.32
.....	.....	.....	.....	45,865.92	.....	36,602.83
4,921.94	8,078.49	119,324.75	19,267.43	1,256,298.48	14,617.39	205,014.75
12,421.94	16,078.49	164,729.08	26,833.13	2,770,343.79	19,412.65	327,306.90
29,200.93	45,962.50	432,854.50	48,492.67	8,740,655.18	59,041.72	874,045.11
0.0	1.9	13.9	16.4	24.0	16.1	2.3

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Concluded

Municipality.....	Wyoming	York Twp.	Zurich	NIAGARA SYSTEM SUMMARY
Population.....	516		P.V.	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				9,074,766.77
Substation equipment.....				21,251,768.74
Distribution system—overhead.....	7,984.17	761,918.94	7,056.95	17,810,455.97
Distribution system—underground.....				5,666,420.78
Line transformers.....	1,470.55		2,237.83	8,556,510.69
Meters.....	2,575.09		2,353.49	7,454,933.62
Street light equipment, regular.....	336.65	51,926.22	471.82	1,847,232.63
Street light equipment, ornamental.....				1,508,564.76
Miscellaneous construction expense.....	805.20	17,884.94	269.97	3,922,407.10
Steam or hydraulic plant.....				24,022.48
Old plant.....			150.00	4,346,975.09
Total plant.....	13,171.66	831,730.10	12,540.06	81,464,058.63
Bank and cash balance.....	1,187.07	69,014.45	384.99	2,443,344.20
Securities and investments.....			4,000.00	2,462,626.49
Accounts receivable.....	418.38		740.68	3,564,218.67
Inventories.....				1,158,363.62
Sinking fund on local debentures.....				8,960,060.48
Equity in H-E.P.C. systems.....	6,592.21		10,620.65	35,053,984.34
Other assets.....		14,260.21		144,226.67
Total assets.....	21,369.32	915,004.76	28,286.38	135,250,883.10
Deficit.....				1,629.26
Total.....	21,369.32	915,004.76	28,286.38	135,252,512.36
LIABILITIES				
Debenture balance.....		285,156.93	2,942.60	29,434,383.47
Accounts payable.....	13.50	1,447.92		2,558,364.16
Bank overdraft.....				13,830.04
Other liabilities.....	30.00		30.00	3,084,276.57
Total liabilities.....	43.50	286,604.85	2,972.60	35,090,854.24
RESERVES				
For equity in H-E.P.C. systems.....	6,592.21		10,620.65	35,053,984.34
For depreciation.....	4,519.37	230,948.13	5,597.70	17,265,021.39
Other reserves.....				2,155,279.45
Total reserves.....	11,111.58	230,948.13	16,218.35	54,474,285.18
SURPLUS				
Debentures paid.....	9,700.00	277,529.32	2,649.01	23,967,278.04
Local sinking fund.....				8,960,060.48
Operating surplus.....	514.24	119,922.46	6,446.42	12,760,034.42
Total surplus.....	10,214.24	397,451.78	9,095.43	45,687,372.94
Total liabilities, reserves and surplus.....	21,369.32	915,004.76	28,286.38	135,252,512.36
Percentage of net debt to total assets.....	0.3	31.3	16.8	27.3

“A”—Continued

Hydro Municipalities as at December 31, 1937

GEORGIAN BAY
SYSTEM

Alliston 1,320	Arthur 1,052	Barrie 8,126	Beaverton 976	Beeton 605	Bradford 989	Brechin P.V.	Canning- ton 761
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
675.73		16,415.88	299.50				
27,254.75	17,594.00	15,285.02		428.50	388.50		
		61,077.18	24,797.07	11,868.81	19,927.59	1,813.06	10,819.18
		66,437.67					
6,861.77	4,362.24	42,551.06	8,353.14	2,316.72	4,677.65	1,266.71	4,262.88
6,940.60	3,848.69	42,145.29	6,308.43	2,152.10	4,577.00	741.31	4,578.47
1,549.02	796.21	12,088.50	1,267.25	1,169.54	544.95	239.08	924.69
2,789.97	357.94	3,857.20	2,565.92	1,615.33	2,100.63	553.28	679.98
7,846.49	1,086.62		3,772.42				3,609.37
53,918.33	28,045.70	259,857.80	47,363.73	19,551.00	32,216.32	4,613.44	24,874.57
3,947.17	63.80	7,017.73	2,389.27	3,050.07	6,972.64	1,579.70	2,394.40
		9,997.50	7,000.00		1,000.00		1,326.62
2,245.40	699.35	13,098.42	1,527.97	511.01	1,914.37	501.64	698.35
		2,636.28					325.06
17,703.35	15,739.92	113,723.29	16,837.64	12,672.24	14,428.01	6,428.21	12,730.55
843.31		5,737.56	257.92		122.49		771.31
78,657.56	44,548.77	412,068.58	75,376.53	35,784.32	56,653.83	13,122.99	43,120.86
	10,433.88			192.15			
78,657.56	54,982.65	412,068.58	75,376.53	35,976.47	56,653.83	13,122.99	43,120.86
19,480.40	14,309.28	16,351.91	4,101.84	8,105.16	14,291.97	1,697.03	5,171.80
155.47		4,639.56	81.95		534.57	70.43	131.65
7.50		1,864.18	547.03		175.00	24.85	34.00
19,643.37	14,309.28	22,855.65	4,730.82	8,105.16	15,001.54	1,792.31	5,337.45
17,703.35	15,739.92	113,723.29	16,837.64	12,672.24	14,428.01	6,428.21	12,730.55
16,214.75	14,242.73	83,000.39	12,944.72	8,304.23	10,810.51	2,137.47	10,116.36
142.52		1,508.94	225.00				184.76
34,060.62	29,982.65	198,232.62	30,007.36	20,976.47	25,238.52	8,565.68	23,031.67
20,519.60	10,690.72	49,013.77	10,898.16	6,894.84	10,908.03	1,513.89	9,828.20
4,433.97		141,966.54	29,740.19		5,505.74	1,251.11	4,923.54
24,953.57	10,690.72	190,980.31	40,638.35	6,894.84	16,413.77	2,765.00	14,751.74
78,657.56	54,982.65	412,068.58	75,376.53	35,976.47	56,653.83	13,122.99	43,120.86
32.2	49.7	7.6	8.1	35.1	35.5	26.8	17.6

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality.....	Chatsworth 321	Chesley	Coldwater	Collingwood 5,498	Cookstown P.V.
Population.....		1,766	589		
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	364.89		275.00	15,950.08	70.00
Substation equipment.....		2,305.58		11,203.24	392.95
Distribution system—overhead....	5,040.64	20,784.79	8,451.77	49,051.22	9,306.12
Distribution system—underground..					
Line transformers.....	1,639.93	7,062.13	2,920.61	18,470.38	2,232.60
Meters.....	1,610.22	6,898.78	2,862.03	22,518.84	2,217.67
Street light equipment, regular....	529.17	1,350.20	775.02	2,896.16	902.02
Street light equipment, ornamental..					
Miscellaneous construction expense.	396.33	3,910.46	326.72	1,034.40	1,541.94
Steam or hydraulic plant.....					
Old plant.....		5,503.60			
Total plant.....	9,581.18	47,815.54	15,611.15	121,124.32	16,663.30
Bank and cash balance.....	1,751.20	155.35	743.65	3,032.06	3,415.27
Securities and investments.....		10,000.00	4,000.00	24,000.00	3,000.00
Accounts receivable.....	1,089.60	987.66	1,931.47	5,732.04	408.24
Inventories.....		270.07		64.78	
Sinking fund on local debentures....					
Equity in H-E.P.C. systems.....	3,432.20	28,495.72	11,725.59	111,159.57	4,137.43
Other assets.....			278.38	746.63	69.98
Total assets.....	15,854.18	87,724.34	34,290.24	265,859.40	27,694.22
Deficit.....					
Total.....	15,854.18	87,724.34	34,290.24	265,859.40	27,694.22
LIABILITIES					
Debenture balance.....	223.63		2,405.98		5,228.73
Accounts payable.....	3.36	374.55	1,194.54	70.59	8.03
Bank overdraft.....					
Other liabilities.....	74.00		182.00	2,138.19	25.00
Total liabilities.....	300.99	374.55	3,782.52	2,208.78	5,261.76
RESERVES					
For equity in H-E.P.C. systems....	3,432.20	28,495.72	11,725.59	111,159.57	4,137.43
For depreciation.....	3,034.91	17,628.94	8,798.74	56,589.70	7,087.91
Other reserves.....			40.43	425.00	
Total reserves.....	6,467.11	46,124.66	20,564.76	168,174.27	11,225.34
SURPLUS					
Debentures paid.....	5,176.37	27,500.00	4,594.02	38,183.42	8,271.27
Local sinking fund.....					
Operating surplus.....	3,909.71	13,725.13	5,348.94	57,292.93	2,935.85
Total surplus.....	9,086.08	41,225.13	9,942.96	95,476.35	11,207.12
Total liabilities, reserves and surplus.	15,854.18	87,724.34	34,290.24	265,859.40	27,694.22
Percentage of net debt to total assets.	2.4	0.6	16.8	1.4	22.3

“A”—Continued

Hydro Municipalities as at December 31, 1937

Creemore 631	Dundalk 652	Durham 1,816	Elmvale P.V.	Elmwood P.V.	Flesherton 446	Grand Valley 582	Graven- hurst 1,996
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	56.59	106.25	.....	.....	36.50	4,181.62
.....	.....	546.02	2,273.07	.....	.....	.....	5,337.20
7,498.70	8,202.88	22,297.30	9,376.49	4,822.81	5,670.31	11,392.19	30,658.78
.....	.....	8,052.59	4,270.64	833.38	1,797.67	2,179.63	10,188.59
3,171.36	3,761.90	7,401.32	3,777.76	1,160.29	2,275.73	2,992.51	10,629.79
3,021.57	2,767.39	1,521.57	447.17	302.28	720.51	987.12	4,348.80
295.27	1,082.10	.....	.....	.....	.....	.....	.....
36.62	343.29	1,756.30	541.64	1,093.62	1,019.11	224.42	3,139.16
.....	.....	2,091.39	.....	.....	.....	.....	28,055.29
14,023.52	16,157.56	43,723.08	20,793.02	8,212.38	11,483.33	17,812.37	96,539.23
1,633.57	4,589.70	5,543.59	2,381.27	1,209.13	4,872.51	1,828.50	8,920.08
3,000.00	3,000.00	7,000.00	2,500.00	3,000.00	.....	5,128.60	.....
606.79	98.91	726.45	528.73	158.94	223.58	445.19	2,871.49
.....	12.26	491.66	.....	.....	.....	28.80	1,051.23
.....	.....	.....	.....	463.68	.....	.....	9,881.92
9,592.55	9,722.37	25,283.16	12,445.69	3,211.63	5,409.34	9,606.44	20,468.95
.....	.....	.....	79.66	.....	.....	.....	347.60
28,856.43	33,580.80	82,767.94	38,728.37	16,255.76	21,988.76	34,849.90	140,080.50
.....
28,856.43	33,580.80	82,767.94	38,728.37	16,255.76	21,988.76	34,849.90	140,080.50
.....	.....	.....	1,971.44	946.80	2,589.13	.....	10,000.00
513.59	75.84	332.81	30.37	22.98	51.10	.....	78.29
.....
114.00	.....	.....	.....	.....	.....	.....	552.50
627.59	75.84	332.81	2,001.81	969.78	2,640.23	.....	10,630.79
.....
9,592.55	9,722.37	25,283.16	12,445.69	3,211.63	5,409.34	9,606.44	20,468.95
4,783.54	5,452.24	13,863.66	9,152.22	3,651.09	4,255.77	7,260.44	20,300.17
.....	.....	.....	.....	.....	319.24	.....	500.00
14,376.09	15,174.61	39,146.82	21,597.91	6,862.72	9,984.35	16,866.88	41,269.12
.....
2,823.61	5,955.96	25,800.00	5,028.56	6,253.20	4,110.87	11,000.00	53,968.41
.....	.....	.....	.....	463.68	.....	.....	9,881.92
11,029.14	12,374.39	17,488.31	10,100.09	1,706.38	5,253.31	6,983.02	24,330.26
13,852.75	18,330.35	43,288.31	15,128.65	8,423.26	9,364.18	17,983.02	88,180.59
28,856.43	33,580.80	82,767.94	38,728.37	16,255.76	21,988.76	34,849.90	140,080.50
3.2	0.3	0.6	7.6	4.0	15.9	0.0	0.7

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality.....	Hanover	Holstein	Huntsville	Kincardine	Kirkfield
Population.....	3,061	P.V.	2,700	2,468	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	3,001.32	.....	353.52	6,531.80	.....
Substation equipment.....	9,271.19	.....	647.30	2,794.20	.....
Distribution system—overhead....	49,683.20	2,117.63	18,565.98	43,793.35	5,157.99
Distribution system—underground.	.....	.....	.....	.....	.....
Line transformers.....	19,354.53	685.79	9,435.67	11,611.45	557.90
Meters.....	16,497.24	601.37	11,040.21	11,342.61	737.11
Street light equipment, regular....	2,350.30	168.69	6,991.23	5,658.76	379.00
Street light equipment, ornamental.	.....	.....	.....	.....	.....
Miscellaneous construction expense.	6,312.32	190.39	1,369.97	5,901.63	301.53
Steam or hydraulic plant.....	.....	.....	.....	.....	.....
Old plant.....	2,370.91	.....	5,226.20	.....	.....
Total plant.....	108,841.01	3,763.87	53,630.08	87,633.80	7,133.53
Bank and cash balance.....	6,752.58	913.31	1,265.79	1,852.02	309.12
Securities and investments.....	25,422.50	1,500.00	14,791.80	.....	.....
Accounts receivable.....	959.51	16.18	1,648.73	2,691.20	298.64
Inventories.....	95.77	.....	3,564.90	573.57	.....
Sinking fund on local debentures....	.....	.....	.....	.....	.....
Equity in H-E.P.C. systems.....	65,836.77	2,160.65	45,793.73	31,664.72	2,554.26
Other assets.....	.....	.....	671.91	584.68	523.10
Total assets.....	207,908.14	8,354.01	121,366.94	124,999.99	10,818.65
Deficit.....	.....	.....	.....	.....	1,338.17
Total.....	207,908.14	8,354.01	121,366.94	124,999.99	12,156.82
LIABILITIES					
Debenture balance.....	9,601.65	.....	468.18	16,468.52	1,398.36
Accounts payable.....	3,169.28	672.23	1,225.37	.....	776.28
Bank overdraft.....	.....	.....	.....	.....	.....
Other liabilities.....	6.00	.....	900.69	.....	.....
Total liabilities.....	12,776.93	672.23	2,594.24	16,468.52	2,174.64
RESERVES					
For equity in H-E.P.C. systems....	65,836.77	2,160.65	45,793.73	31,664.72	2,554.26
For depreciation.....	48,562.24	1,426.25	13,275.71	24,763.33	2,826.28
Other reserves.....	.....	.....	2,008.95	.....	.....
Total reserves.....	114,399.01	3,586.90	61,078.39	56,428.05	5,380.54
SURPLUS					
Debentures paid.....	77,898.35	2,762.05	20,665.36	47,731.48	4,601.64
Local sinking fund.....	.....	.....	.....	.....	.....
Operating surplus.....	2,833.85	1,332.83	37,028.95	4,371.94	.....
Total surplus.....	80,732.20	4,094.88	57,694.31	52,103.42	4,601.64
Total liabilities, reserves and surplus..	207,908.14	8,354.01	121,366.94	124,999.99	12,156.82
Percentage of net debt to total assets..	9.0	10.9	3.4	17.6	26.3

“A”—Continued

Hydro Municipalities as at December 31, 1937

Lucknow 1,068	Markdale 802	Meaford 2,719	Midland 6,690	Mildmay 750	Mount Forest 1,815	Neustadt 451	Orange- ville 2,479
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	780.80	1,116.53	19,983.57	.....	3,725.00	.....	2,585.07
18,164.50	10,400.08	3,240.15	85,096.20	.....	686.75	.....	1,169.00
.....	.....	31,441.16	94,799.59	6,056.32	23,092.70	9,995.44	34,746.13
5,244.47	4,151.74	8,276.72	24,402.13	1,657.05	7,085.19	4,146.92	8,585.53
4,979.49	3,905.36	8,303.54	37,836.41	2,580.71	7,962.41	2,130.95	12,453.12
1,475.15	1,314.08	3,287.42	19,139.42	561.88	2,397.89	496.41	7,532.55
.....
2,469.50	658.45	2,374.80	4,594.10	1,293.66	2,367.91	1,514.86	6,656.17
.....
.....	2,080.65	3,452.38	.....	849.00	3,810.95	1,097.60	3,204.99
32,333.11	23,291.16	61,492.70	285,851.42	12,998.62	51,128.80	19,382.18	76,932.56
935.05	822.90	1,388.53	14,742.21	1,945.22	1,266.73	1,428.70	6,120.62
5,000.00	4,255.13	16,584.16	39,000.00	2,500.00	4,000.00	2,000.00	9,500.00
1,660.19	1,091.75	1,183.02	8,993.62	423.65	1,012.93	974.28	1,037.79
.....	.....	0.76	2,739.21	.....	91.16	27.28	433.07
15,007.73	7,906.55	21,886.41	176,453.92	1,639.82	24,969.87	5,433.59	33,910.91
.....	.....	238.87	610.32	.....	.....	.....	.....
54,936.08	37,367.49	102,774.45	528,390.70	19,507.31	82,469.49	29,246.03	127,934.95
.....	.....	.....	.....	.....	.....	1,911.91	.....
54,936.08	37,367.49	102,774.45	528,390.70	19,507.31	82,469.49	31,157.94	127,934.95
6,364.79	4,060.83	24,171.48	13,776.42	10,476.27	8,811.83	2,238.99	281.65
1,307.29	.....	93.31	301.34	.....	15.27	50.25	1,500.00
.....
.....	22.00	1,194.33	831.95	.....	.....	.....	.....
7,672.08	4,082.83	25,459.12	14,909.71	10,476.27	8,827.10	2,289.24	1,781.65
15,007.73	7,906.55	21,886.41	176,453.92	1,639.82	24,969.87	5,433.59	33,910.91
7,636.20	6,574.22	13,175.61	148,595.04	1,139.00	18,680.83	8,674.10	25,513.46
.....	.....	.....	2,953.88	.....	.....	.....	.....
22,643.93	14,480.77	35,062.02	328,002.84	2,778.82	43,650.70	14,107.69	59,424.37
13,358.57	4,939.17	25,188.72	98,168.57	1,827.23	22,146.77	14,761.01	35,618.35
11,261.50	13,864.72	17,064.59	87,309.58	4,424.99	7,844.92	.....	31,110.58
24,620.07	18,803.89	42,253.31	185,478.15	6,252.22	29,991.69	14,761.01	66,728.93
54,936.08	37,367.49	102,774.45	528,390.70	19,507.31	82,469.49	31,157.94	127,934.95
19.2	13.9	31.5	4.2	58.6	15.4	9.6	1.9

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality.....	Owen Sound 13,100	Paisley 792	Penetag- guishene 4,061	Port Elgin 1,267	Port McNicoll 933
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	26,023.81		2,288.05	111.25	369.08
Substation equipment.....	15,131.59	1,923.46	7,076.39		
Distribution system—overhead. . .	109,885.76	11,623.28	44,627.31	26,818.38	8,444.44
Distribution system—underground.					
Line transformers.....	48,164.86	1,602.53	17,731.82	6,400.57	1,400.23
Meters.....	58,302.39	3,086.84	14,525.52	6,884.80	2,502.88
Street light equipment, regular. . .	29,695.51	1,045.51	3,770.88	2,123.60	590.62
Street light equipment, ornamental.					
Miscellaneous construction expense.	3,997.37	815.70	1,232.96	1,339.55	767.95
Steam or hydraulic plant.....	33,282.00				
Old plant.....		1,745.00		4,213.00	
Total plant.....	324,483.29	21,842.32	91,252.93	47,891.15	14,075.20
Bank and cash balance.....	17,200.75	1,295.68	1,954.46	3,299.64	1,191.01
Securities and investments.....	25,000.00	4,000.00	1,016.65	10,000.00	
Accounts receivable.....	7,415.89	674.68	4,369.80	266.45	177.92
Inventories.....	10,033.33		120.51		
Sinking fund on local debentures....					
Equity in H-E.P.C. systems.....	158,806.78	8,500.33	50,829.08	6,380.58	4,976.53
Other assets.....			324.73		
Total assets.....	542,940.04	36,313.01	149,868.16	67,837.82	20,420.66
Deficit.....					
Total.....	542,940.04	36,313.01	149,868.16	67,837.82	20,420.66
LIABILITIES					
Debenture balance.....		6,688.38	8,134.31	31,657.99	715.47
Accounts payable.....	244.44	9.91	108.23	3,935.06	
Bank overdraft.....					
Other liabilities.....	4,086.98		355.00	10.00	45.00
Total liabilities.....	4,331.42	6,698.29	8,597.54	35,603.05	760.47
RESERVES					
For equity in H-E.P.C. systems....	158,806.78	8,500.33	50,829.08	6,380.58	4,976.53
For depreciation.....	65,164.46	5,416.45	37,275.19	5,764.23	4,803.22
Other reserves.....	10,000.00		1,000.00		
Total reserves.....	233,971.24	13,916.78	89,104.27	12,144.81	9,779.75
SURPLUS					
Debentures paid.....	141,000.00	9,311.62	28,848.64	10,342.01	6,584.53
Local sinking fund.....					
Operating surplus.....	163,637.38	6,386.32	23,317.71	9,747.95	3,295.91
Total surplus.....	304,637.38	15,697.94	52,166.35	20,089.96	9,880.44
Total liabilities, reserves and surplus..	542,940.04	36,313.01	149,868.16	67,837.82	20,420.66
Percentage of net debt to total assets..	1.1	24.1	8.7	57.9	4.9

“A”—Continued

Hydro Municipalities as at December 31, 1937

Port Perry 1,124	Priceville P.V.	Ripley 442	Rosseau 315	Shelburne 1,114	Southampton 1,255	Stayner 999	Sunderland P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	68.00	.....	.....	800.00	25.00	200.00	.....
2,564.65	.....	.....	.....	566.60	.....	.....	.....
19,209.99	4,942.41	9,991.09	7,287.49	14,975.58	23,731.25	15,318.82	4,203.39
.....
4,654.69	702.86	3,693.93	2,204.63	6,309.57	6,640.27	5,946.60	1,523.48
4,218.00	470.60	1,545.37	1,083.86	6,538.06	7,662.36	6,116.07	2,122.15
1,037.90	139.88	844.33	514.22	1,059.60	2,000.73	1,003.31	627.74
.....
120.18	833.90	1,243.26	1,269.71	2,233.26	1,508.71	441.38	187.02
.....
.....	.....	.....	.....	739.50	2,477.00	.....	2,030.00
.....
31,805.41	7,157.65	17,317.98	12,359.91	33,222.17	44,045.32	29,026.18	10,693.78
.....
2,339.61	333.24	2,212.78	1,990.31	1,824.87	2,950.20	229.89	1,873.85
10,000.00	.....	.....	.....	6,500.00	.....	6,000.00	.....
636.58	213.00	176.09	334.74	254.39	303.80	648.15	95.65
.....	.....	.....	.....	59.40	6.37	.....	.....
.....
12,977.59	746.34	5,960.98	2,260.22	15,107.81	5,771.65	12,943.81	8,423.71
.....	.....	.....	145.60	270.00	.....	22.73	213.12
.....
57,759.19	8,450.23	25,667.83	17,090.78	57,238.64	53,077.34	48,870.76	21,300.11
.....	1,623.54	.....	.....	.....	.....	.....	.....
.....
57,759.19	10,073.77	25,667.83	17,090.78	57,238.64	53,077.34	48,870.76	21,300.11
.....
.....
11,495.07	1,398.39	8,618.98	11,454.02	772.17	17,663.98	.....	378.27
.....	46.57	.....	285.45	58.81	492.53	664.78	225.19
.....
514.00	.....	151.83	.....	31.78	7.67	180.00	6.00
.....
12,009.07	1,444.96	8,770.81	11,739.47	862.76	18,164.18	844.78	609.46
.....
.....
12,977.59	746.34	5,960.98	2,260.22	15,107.81	5,771.65	12,943.81	8,423.71
8,429.61	2,280.86	4,844.31	1,407.47	13,532.88	4,432.15	11,357.28	4,402.44
.....	.....	.....	.....	.....	.....	40.00	.....
.....
21,407.20	3,027.20	10,805.29	3,667.69	28,640.69	10,203.80	24,341.09	12,826.15
.....
.....
8,386.59	5,601.61	5,352.96	1,545.98	19,147.83	15,336.02	9,867.59	6,421.73
.....
15,956.33	.....	738.77	137.64	8,587.36	9,373.34	13,817.30	1,442.77
.....
24,342.92	5,601.61	6,091.73	1,683.62	27,735.19	24,709.36	23,684.89	7,864.50
.....
57,759.19	10,073.77	25,667.83	17,090.78	57,238.64	53,077.34	48,870.76	21,300.11
.....
26.8	18.8	44.5	79.1	2.0	38.4	2.4	4.7

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Concluded

Municipality.....	Tara	Teeswater	Thornton	Tottenham	Uxbridge
Population.....	471	837	P.V.	540	1,483
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....					40.00
Substation equipment.....		330.31		358.50	2,657.65
Distribution system—overhead....	11,198.61	17,260.71	6,478.82	8,395.33	14,454.20
Distribution system—underground.					
Line transformers.....	2,292.77	5,362.15	1,015.06	1,376.38	4,076.22
Meters.....	1,804.33	3,596.58	924.56	2,227.73	5,070.42
Street light equipment, regular....	2,602.39	1,488.82	381.95	466.26	1,489.77
Street light equipment, ornamental.					
Miscellaneous construction expense.	1,457.79	1,855.49	300.35	1,337.98	1,015.12
Steam or hydraulic plant.....					
Old plant.....		4,976.86		286.45	
Total plant.....	19,355.89	34,870.92	9,100.74	14,448.63	28,803.38
Bank and cash balance.....	1,933.38	534.12	892.09	941.83	3,102.25
Securities and investments.....		2,500.00			
Accounts receivable.....	299.81	515.07	65.15	741.28	785.15
Inventories.....					
Sinking fund on local debentures....					
Equity in H-E.P.C. systems.....	6,734.91	9,586.49	2,662.05	8,427.27	13,722.60
Other assets.....					25.34
Total assets.....	28,323.99	48,006.60	12,720.03	24,559.01	46,438.72
Deficit.....	1,879.99		2,504.02	2,941.82	
Total.....	30,203.98	48,006.60	15,224.05	27,500.83	46,438.72
LIABILITIES					
Debenture balance.....	1,806.15	6,840.09	1,418.48	5,874.23	
Accounts payable.....	773.57	624.31	28.90	40.89	101.05
Bank overdraft.....					
Other liabilities.....		33.00		244.00	149.85
Total liabilities.....	2,579.72	7,497.40	1,447.38	6,159.12	250.90
RESERVES					
For equity in H-E.P.C. systems....	6,734.91	9,586.49	2,662.05	8,427.27	13,722.60
For depreciation.....	7,195.50	7,161.23	5,033.10	5,821.57	6,271.45
Other reserves.....					
Total reserves.....	13,930.41	16,747.72	7,695.15	14,248.84	19,994.05
SURPLUS					
Debentures paid.....	13,693.85	21,159.91	6,081.52	7,092.87	16,207.59
Local sinking fund.....					
Operating surplus.....		2,601.57			9,986.18
Total surplus.....	13,693.85	23,761.48	6,081.52	7,092.87	26,193.77
Total liabilities, reserves and surplus.	30,203.98	48,006.60	15,224.05	27,500.83	46,438.72
Percentage of net debt to total assets.	11.9	19.5	14.4	38.2	0.7

“A”—Continued

Hydro Municipalities as at December 31, 1937

Victoria Harbor 1,043	Walkerton 2,350	Waubau- shene P.V.	Warton 1,766	Winder- mere 146	Wingham 2,115	Woodville 365	GEORGIAN BAY SYSTEM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	.....	241.79	.....	21,049.29	.....	126,269.39
.....	.....	.....	.....	.....	4,863.91	.....	177,994.46
9,830.46	41,890.74	9,165.21	21,153.38	9,365.60	40,474.75	3,280.45	1,209,727.16
.....	.....	.....	.....	.....	.....	.....	66,437.67
1,796.97	12,282.21	2,454.90	5,868.28	3,260.50	16,450.49	1,995.54	411,636.18
2,758.61	11,537.05	2,456.48	6,795.78	1,002.87	15,573.14	2,227.45	432,830.22
366.32	2,548.25	303.35	2,088.72	247.26	3,489.76	521.83	146,937.92
.....
674.75	2,365.04	349.59	5,872.88	525.65	4,255.51	296.71	102,187.36
.....	.....	.....	.....	.....	14,711.99	.....	47,993.99
.....	4,897.60	.....	2,021.79	.....	12,320.02	2,182.50	111,947.58
15,427.11	75,520.89	14,729.53	44,042.62	14,401.88	133,188.86	10,504.48	2,833,961.93
1,598.73	2,410.54	531.36	5,033.89	799.65	800.30	1,144.58	165,652.45
.....	.....	.....	10,000.00	.....	4,000.00	5,000.00	292,523.96
739.23	3,485.27	429.12	1,923.21	503.12	4,230.46	1,222.99	89,503.09
.....	1,651.76	.....	45.79	.....	4,099.65	.....	28,422.67
.....	.....	.....	.....	.....	.....	.....	10,345.60
5,278.78	10,825.61	3,138.64	8,754.09	1,660.73	28,052.12	8,298.89	1,301,000.37
.....	.....	.....	.....	.....	.....	202.83	13,088.07
23,043.85	93,894.07	18,828.65	69,799.60	17,365.38	174,371.39	26,373.77	4,734,498.14
.....	.....	.....	.....	.....	.....	.....	22,825.48
23,043.85	93,894.07	18,828.65	69,799.60	17,365.38	174,371.39	26,373.77	4,757,323.62
.....	50,040.44	.....	31,150.14	10,030.68	28,729.71	1,802.45	441,663.47
60.00	42.81	1,012.01	3,066.05	.....	407.76	60.46	29,769.08
.....
.....	63.00	.....	25.00	.....	551.00	.....	15,147.33
60.00	50,146.25	1,012.01	34,241.19	10,030.68	29,688.47	1,862.91	486,579.88
5,278.78	10,825.61	3,138.64	8,754.09	1,660.73	28,052.12	8,298.89	1,301,000.37
5,372.59	6,823.90	2,603.11	5,363.94	1,980.40	30,696.36	2,499.78	896,406.24
.....	.....	.....	.....	.....	.....	250.00	19,598.72
10,651.37	17,649.51	5,741.75	14,118.03	3,641.13	58,748.48	11,048.67	2,217,005.33
6,500.00	12,959.56	3,500.00	6,249.86	1,732.62	67,375.79	3,697.55	1,122,598.40
.....	.....	.....	.....	.....	.....	.....	10,345.60
5,832.48	13,138.75	8,574.89	15,190.52	1,960.95	18,558.65	9,764.64	920,794.41
12,332.48	26,098.31	12,074.89	21,440.38	3,693.57	85,934.44	13,462.19	2,053,738.41
23,043.85	93,894.07	18,828.65	69,799.60	17,365.38	174,371.39	26,373.77	4,757,323.62
0.3	60.4	6.5	56.1	63.9	20.3	10.3	13.9

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM

Municipality.....	Alexandria	Apple Hill	Athens	Bath	Belleville
Population.....	1,926	P.V.	669	318	14,509
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	202.00	169.06			40,214.90
Substation equipment.....					2,338.65
Distribution system—overhead....	28,269.44	2,935.47	14,136.10	6,051.92	117,064.81
Distribution system—underground..					
Line transformers.....	8,526.59	1,288.37	1,980.47	1,021.65	26,437.08
Meters.....	7,166.19	1,113.07	2,896.39	735.77	61,964.03
Street light equipment, regular....	2,224.20	421.12	698.90	554.37	21,531.01
Street light equipment, ornamental..					
Miscellaneous construction expense.	5,098.40	273.13	1,011.61	727.38	10,700.84
Steam or hydraulic plant.....					
Old plant.....	4,466.89	709.55			
Total plant.....	55,953.71	6,909.77	20,723.47	9,091.09	280,251.32
Bank and cash balance.....	5,600.02	1,253.76	1,347.68	50.53	47,576.18
Securities and investments.....	5,000.00		3,500.00		5,000.00
Accounts receivable.....	4,587.51	258.36	1,242.90		44,389.58
Inventories.....					9,100.04
Sinking fund on local debentures....					
Equity in H-E.P.C. systems.....	24,795.74	2,580.55	4,388.60	1,380.53	119,707.98
Other assets.....					
Total assets.....	95,936.98	11,002.44	31,202.65	10,522.15	506,025.10
Deficit.....				120.82	
Total.....	95,936.98	11,002.44	31,202.65	10,642.97	506,025.10
LIABILITIES					
Debenture balance.....	9,323.05	1,939.27	9,480.44	6,299.55	
Accounts payable.....		100.00	1.16	583.44	
Bank overdraft.....					
Other liabilities.....	493.10			110.00	9,939.00
Total liabilities.....	9,816.15	2,039.27	9,481.60	6,992.99	9,939.00
RESERVES					
For equity in H-E.P.C. systems....	24,795.74	2,580.55	4,388.60	1,380.53	119,707.98
For depreciation.....	16,105.76	2,034.26	3,607.62	1,069.00	37,456.38
Other reserves.....	377.83		106.06		1,034.40
Total reserves.....	41,279.33	4,614.81	8,102.28	2,449.53	158,198.76
SURPLUS					
Debentures paid.....	38,810.79	4,060.73	4,519.56	1,200.45	176,000.00
Local sinking fund.....					
Operating surplus.....	6,030.71	287.63	9,099.21		161,887.34
Total surplus.....	44,841.50	4,348.36	13,618.77	1,200.45	337,887.34
Total liabilities, reserves and surplus..	95,936.98	11,002.44	31,202.65	10,642.97	506,025.10
Percentage of net debt to total assets..	13.8	24.2	35.4	76.5	2.6

“A”—Continued

Hydro Municipalities as at December 31, 1937

Bloomfield 663	Bowman- ville 3,611	Brighton 1,420	Brockville 9,903	Cardinal 1,471	Carleton Place 4,275	Chester- ville 1,067	Cobden 637
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
410.00	28,156.36	45,295.14	13,390.32	335.00			
11,184.20	894.47	1,000.87	2,471.63				
	46,741.20	90,630.37	44,138.34	10,042.42	3,865.51		
2,251.58	5,494.32	41,088.61	3,087.42	11,831.64	3,688.10	574.98	
2,885.95	18,333.17	47,069.29	3,169.23	17,984.46	4,568.11	839.90	
908.20	2,966.51	25,196.19	491.85	6,699.55	593.64	412.00	
1,403.42	5,232.04	834.33	3,495.53	1,159.98	5,335.10	1,051.34	45.86
		46,965.86					
		4,821.76	3,474.80	5,289.19		2,853.85	
19,043.35	110,859.45	29,540.50	305,563.62	23,901.35	107,140.23	20,278.61	8,592.10
3,612.89	6,992.82	2,892.02	8,699.06	810.35	1,263.73	528.13	2,518.62
31.15	12,698.43	2,826.93	115,000.00	3,000.00	20,000.00	9,000.00	
	3,646.63	5,273.27	6,984.75	766.70	8,816.05	2,940.84	383.63
4,435.38	36,749.38	7,818.54	2,726.52		1,144.43	578.00	
		133,152.53	3,471.65	60,999.15	22,517.71	286.41	
27,122.77	170,946.71	48,351.26	572,126.48	31,950.05	199,363.59	55,843.29	11,780.76
27,122.77	170,946.71	48,351.26	572,126.48	31,950.05	199,363.59	55,843.29	11,780.76
5,329.62	31,785.03	15,063.12		10,568.19	32,467.64	249.65	6,428.62
112.99	1,373.86		7,238.94	947.61	10.20	720.85	
69.00	1,115.21	137.78	45.40		1,109.40		75.00
5,511.61	34,274.10	15,200.90	7,284.34	11,515.80	33,587.24	970.50	6,503.62
4,435.38	36,749.38	7,818.54	133,152.53	3,471.65	60,999.15	22,517.71	286.41
6,126.96	10,318.50	3,450.23	100,952.63	2,376.40	12,868.30	6,213.17	237.71
		780.17	15,388.34		1,434.80		
10,562.34	47,067.88	12,048.94	249,493.50	5,848.05	75,302.25	28,730.88	524.12
5,870.38	39,214.97	9,936.88	226,657.54	4,431.81	33,532.36	6,250.35	1,374.65
5,178.44	50,389.76	11,164.54	88,691.10	10,154.39	56,941.74	19,891.56	3,378.37
11,048.82	89,604.73	21,101.42	315,348.64	14,586.20	90,474.10	26,141.91	4,753.02
27,122.77	170,946.71	48,351.26	572,126.48	31,950.05	199,363.59	55,843.29	11,780.76
24.3	25.5	37.5	1.7	40.4	24.3	2.9	56.6

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality.....	Cobourg	Colborne	Deseronto	Finch	Hastings
Population.....	5,063	954	1,287	392	811
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	29,949.68	.....	597.41	.....	.....
Substation equipment.....	1,668.35	.....	161.18	.....	.....
Distribution system—overhead....	73,057.31	10,307.97	10,310.90	7,669.04	15,987.74
Distribution system—underground..	.....	.....	.....	.....	.....
Line transformers.....	22,110.17	1,117.89	1,702.57	1,393.35	2,143.13
Meters.....	26,944.45	2,178.21	4,807.54	1,798.27	3,292.38
Street light equipment, regular....	9,430.31	1,444.81	432.60	478.87	1,245.84
Street light equipment, ornamental..	.....	.....	.....	.....	.....
Miscellaneous construction expense.	5,022.10	3,306.66	543.60	157.38	739.23
Steam or hydraulic plant.....	.....	.....	.....	.....	1,733.13
Old plant.....	.....	.....	.....	.....	.....
Total plant.....	168,182.37	18,355.54	18,555.80	11,496.91	25,141.45
Bank and cash balance.....	.....	1,491.46	625.60	1,065.77	358.40
Securities and investments.....	.....	3,500.00	.....	3,000.00	5,500.00
Accounts receivable.....	19,505.51	623.27	1,962.08	792.18	699.35
Inventories.....	4,139.75	817.44	1,101.71	20.22	.....
Sinking fund on local debentures....	.....	.....	.....	.....	.....
Equity in H-E.P.C. systems.....	27,277.02	2,141.19	4,671.43	3,132.24	2,357.56
Other assets.....	.....	.....	.....	.....	.....
Total assets.....	219,104.65	26,928.90	26,916.62	19,507.32	34,056.76
Deficit.....	.....	.....	.....	.....	.....
Total.....	219,104.65	26,928.90	26,916.62	19,507.32	34,056.76
LIABILITIES					
Debenture balance.....	87,898.74	10,818.53	3,382.99	4,491.80	16,851.56
Accounts payable.....	4,285.78	.....	.....	180.85	.....
Bank overdraft.....	2,305.08	.....	.....	.....	.....
Other liabilities.....	4,232.16	212.00	276.12	10.00	154.00
Total liabilities.....	98,721.76	11,030.53	3,659.11	4,682.65	17,005.56
RESERVES					
For equity in H-E.P.C. systems....	27,277.02	2,141.19	4,671.43	3,132.24	2,357.56
For depreciation.....	14,737.12	1,268.00	2,518.92	1,951.28	2,921.41
Other reserves.....	.....	.....	.....	10.59	.....
Total reserves.....	42,014.14	3,409.19	7,190.35	5,094.11	5,278.97
SURPLUS					
Debentures paid.....	18,094.76	1,376.06	11,617.01	2,508.20	4,148.44
Local sinking fund.....	.....	.....	.....	.....	.....
Operating surplus.....	60,273.99	11,113.12	4,450.15	7,222.36	7,623.79
Total surplus.....	78,368.75	12,489.18	16,067.16	9,730.56	11,772.23
Total liabilities, reserves and surplus..	219,104.65	26,928.90	26,916.62	19,507.32	34,056.76
Percentage of net debt to total assets..	51.5	44.5	16.4	28.6	53.6

“A”—Continued

Hydro Municipalities as at December 31, 1937

Havelock	Kemptville	Kingston	Lakefield	Lanark	Lancaster	Lindsay
1,208	1,178	23,513	1,337	623	608	7,116
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
572.90	3,475.18	213,142.48	3,137.97			10,556.68
19,786.70	20,866.81	68,657.08				3,176.56
		175,405.83	22,221.45	6,802.57	6,455.81	87,540.36
		186,386.18				
2,796.25	6,483.37	64,182.64	5,748.97	1,267.23	1,044.32	24,852.79
5,510.31	7,118.81	110,117.95	7,311.82	2,036.95	1,609.91	32,100.81
1,883.33	1,063.16	75,339.48	1,876.05	682.38	650.65	10,311.90
4,497.17	6,437.93	43,872.39	3,652.05	371.51	1,068.55	7,222.40
		15,890.14				
2,420.45			3,445.25			
37,467.11	45,445.26	952,994.17	47,393.56	11,160.64	10,829.24	175,761.50
1,466.43	2,165.73	8,980.69	2,593.75	1,792.61	3,770.05	6,978.03
10,000.00	20,000.00	276,175.00	8,000.00	1,982.05		55,000.00
617.66	2,345.65	25,773.94	1,889.28	267.22	321.36	7,406.45
	749.28	8,796.80				345.26
		19,677.49				
9,194.60	15,747.78		9,159.83	4,812.37	4,940.99	65,827.39
		1,000.00				
58,745.80	86,453.70	1,293,398.09	69,036.42	20,014.89	19,861.64	311,318.63
58,745.80	86,453.70	1,293,398.09	69,036.42	20,014.89	19,861.64	311,318.63
8,204.09	16,078.51	58,822.02	22,061.29	658.81		86,648.69
	3,600.74	16,255.00			88.26	
		3,812.07	609.80	30.00	128.36	2,358.93
8,204.09	19,679.25	78,889.09	22,671.09	688.81	216.62	89,007.62
9,194.60	15,747.78		9,159.83	4,812.37	4,940.99	65,827.39
9,639.46	10,542.88	196,146.79	13,543.70	2,925.25	3,574.00	30,869.00
		292,283.53				
18,834.06	26,290.66	488,430.32	22,703.53	7,737.62	8,514.99	96,696.39
24,695.91	8,921.49	253,077.98	11,438.71	6,902.66	9,970.42	43,351.31
		19,677.49				
7,011.74	31,562.30	453,323.21	12,223.09	4,685.80	1,159.61	82,263.31
31,707.65	40,483.79	726,078.68	23,661.80	11,588.46	11,130.03	125,614.62
58,745.80	86,453.70	1,293,398.09	69,036.42	20,014.89	19,861.64	311,318.63
16.5	27.8	4.6	37.2	4.5	1.5	36.3

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Madoc	Marmora	Martin- town P.V.	Maxville	Napanee
Population.....	1,253	948		741	3,061
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	100.00		126.15		2,634.47
Substation equipment.....				407.79	
Distribution system—overhead....	11,431.45	13,609.20	2,746.79	11,665.96	42,892.30
Distribution system—underground.					
Line transformers.....	3,271.56	3,629.11	690.33	1,781.21	9,192.74
Meters.....	5,105.30	3,846.98	955.81	2,486.97	17,052.28
Street light equipment, regular....	1,577.14	1,193.23	335.26	1,908.93	4,013.17
Street light equipment, ornamental.					
Miscellaneous construction expense.	304.70	2,091.11	739.49	2,374.74	5,123.60
Steam or hydraulic plant.....					
Old plant.....		573.62			
Total plant.....	21,790.15	24,943.25	5,593.83	20,625.60	80,908.56
Bank and cash balance.....	6,609.59	3,352.85	1,248.76	2,828.53	6,202.55
Securities and investments.....		240.81	1,000.00	1,000.00	
Accounts receivable.....	246.79	590.68	172.40	936.11	17,253.95
Inventories.....				64.80	6,630.09
Sinking fund on local debentures....					
Equity in H-E.P.C. systems.....	5,193.85	3,965.41	1,611.09	7,542.66	29,087.33
Other assets.....					
Total assets.....	33,840.38	33,093.00	9,626.08	32,997.70	140,082.48
Deficit.....					
Total.....	33,840.38	33,093.00	9,626.08	32,997.70	140,082.48
LIABILITIES					
Debenture balance.....		4,352.74		3,612.17	16,537.10
Accounts payable.....	26.70	35.00		1,477.66	200.00
Bank overdraft.....					
Other liabilities.....	266.00	30.00	5.00	65.00	632.55
Total liabilities.....	292.70	4,417.74	5.00	5,154.83	17,369.65
RESERVES					
For equity in H-E.P.C. systems....	5,193.85	3,965.41	1,611.09	7,542.66	29,087.33
For depreciation.....	919.12	3,574.48	1,750.37	5,272.02	7,084.93
Other reserves.....			81.02	100.00	3,084.46
Total reserves.....	6,112.97	7,539.89	3,442.48	12,914.68	39,256.72
SURPLUS					
Debentures paid.....	14,000.00	13,313.37	6,000.00	12,387.83	53,462.90
Local sinking fund.....					
Operating surplus.....	13,434.71	7,822.00	178.60	2,540.36	29,993.21
Total surplus.....	27,434.71	21,135.37	6,178.60	14,928.19	83,456.11
Total liabilities, reserves and surplus.	33,840.38	33,093.00	9,626.08	32,997.70	140,082.48
Percentage of net debt to total assets.	1.0	15.1	0.0	20.3	15.6

“A”—Continued

Hydro Municipalities as at December 31, 1937

Newcastle 675	Norwood 753	Omamee 579	Oshawa 24,692	Ottawa 141,903	Perth 4,184	Peterborough 23,072
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	457.53	360.32	60,887.33	481,693.79	5,224.67	75,202.75
.....	.....	.....	1,468.29	730,943.43	5,779.83	101,578.00
13,615.94	23,334.51	11,700.81	206,936.76	795,730.92	47,234.88	258,557.29
.....	.....	.....	.....	181,038.13	.....	.....
3,749.81	3,879.18	2,980.81	55,527.48	348,506.04	24,220.65	109,374.87
3,370.56	4,822.00	2,567.46	108,841.65	274,897.32	22,404.81	102,070.69
688.22	1,886.92	701.06	16,248.86	123,847.51	4,355.48	57,484.22
.....
.....	4,030.18	1,575.92	23,058.51	41,158.24	7,300.99	73,871.76
.....
.....	2,447.51	.....	8,831.65	.....	23,586.94	29,771.74
21,424.53	40,857.83	19,886.38	481,800.53	2,977,815.38	140,108.25	807,911.32
.....	4,150.68	5,148.31	26,593.61	81,938.26	13,851.61	.....
.....	12,000.00	.....	.....	160,000.00	54,477.76	.....
1,058.90	485.06	83.81	95,213.97	78,174.38	5,773.00	44,636.10
.....	.....	.....	11,369.56	20,188.46	7,791.27	11,889.63
.....	.....	.....	.....	478,072.65	.....	324,649.97
332.88	4,454.82	.....	365,542.72	120,418.90	53,301.70	216,071.30
.....	.....	.....	130.35	.....	.....	.....
22,816.31	61,948.39	25,118.50	980,650.74	3,916,608.03	275,303.59	1,405,158.32
.....
22,816.31	61,948.39	25,118.50	980,650.74	3,916,608.03	275,303.59	1,405,158.32
13,565.29	23,002.39	478.19	173,369.77	593,379.09	44,127.77	527,920.00
.....	28.92	.....	52,534.58	36,228.27	415.99	43,358.79
.....	.....	.....	.....	.....	.....	14,591.88
.....	349.27	113.48	23,524.34	2,625.20	2,533.34	185.00
13,565.29	23,380.58	591.67	249,428.69	632,232.56	47,077.10	586,055.67
332.88	4,454.82	.....	365,542.72	120,418.90	53,301.70	216,071.30
7,360.64	11,828.90	8,214.31	68,778.29	1,152,053.25	47,338.20	111,267.02
.....	.....	.....	17,634.94	173,708.85	900.00	1,224.63
7,693.52	16,283.72	8,214.31	451,955.95	1,446,181.00	101,539.90	328,562.95
434.71	14,097.61	11,521.81	136,630.23	386,620.91	64,272.23	.....
.....	.....	.....	.....	478,072.65	.....	324,649.97
1,122.79	8,186.48	4,790.71	142,635.87	973,500.91	62,414.36	165,889.73
1,557.50	22,284.09	16,312.52	279,266.10	1,838,194.47	126,686.59	490,539.70
22,816.31	61,948.39	25,118.50	980,650.74	3,916,608.03	275,303.59	1,405,158.32
60.3	40.6	2.4	40.6	4.6	21.2	30.2

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Picton	Port Hope	Prescott	Richmond	Russell
Population	3,481	4,564	2,942	408	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings	10,897.49	8,882.20	2,761.54		
Substation equipment	2,004.66				
Distribution system—overhead	40,076.38	50,743.40	39,625.49	6,632.53	7,872.06
Distribution system—underground					
Line transformers	12,964.42	15,182.96	14,436.16	991.53	1,382.48
Meters	17,950.57	21,034.36	19,559.78	1,257.67	1,690.42
Street light equipment, regular	4,379.57	2,828.46	2,116.94	173.98	492.87
Street light equipment, ornamental					
Miscellaneous construction expense	3,988.03	1,466.87	1,255.06	642.54	1,316.25
Steam or hydraulic plant					
Old plant					
Total plant	92,261.12	100,138.25	79,754.97	9,698.25	12,754.08
Bank and cash balance	4,742.71	13,421.32	2,424.62	936.87	845.48
Securities and investments	14,000.00	15,000.00	3,000.00		2,500.00
Accounts receivable	4,359.99	4,832.32	5,558.21	494.40	1,462.41
Inventories	5,079.48	2,177.52	531.66		
Sinking fund on local debentures					
Equity in H-E.P.C. systems	37,751.92	37,159.25	37,757.55	1,952.37	4,331.14
Other assets	2,245.24				
Total assets	160,440.46	172,728.66	129,027.01	13,081.89	21,893.11
Deficit					
Total	160,440.46	172,728.66	129,027.01	13,081.89	21,893.11
LIABILITIES					
Debenture balance				4,468.65	5,300.72
Accounts payable		49.01	1,101.10	0.84	
Bank overdraft					
Other liabilities	2,245.24	4,330.59	220.51	90.25	
Total liabilities	2,245.24	4,379.60	1,321.61	4,559.74	5,300.72
RESERVES					
For equity in H-E.P.C. systems	37,751.92	37,159.25	37,757.55	1,952.37	4,331.14
For depreciation	16,662.96	12,381.84	39,275.13	1,671.92	2,418.84
Other reserves	1,353.53			52.84	
Total reserves	55,768.41	49,541.09	77,032.68	3,677.13	6,749.98
SURPLUS					
Debentures paid	5,730.32	79,000.00	12,170.99	2,031.35	4,699.28
Local sinking fund					
Operating surplus	96,696.49	39,807.97	38,501.73	2,813.67	5,143.13
Total surplus	102,426.81	118,807.97	50,672.72	4,845.02	9,842.41
Total liabilities, reserves and surplus	160,440.46	172,728.66	129,027.01	13,081.89	21,893.11
Percentage of net debt to total assets	1.8	2.0	1.4	41.0	3.0

“A”—Continued

Hydro Municipalities as at December 31, 1937

Smiths Falls 7,623	Stirling 935	Trenton 6,440	Tweed 1,311	Wark- worth P.V.	Wellington 872	Westport 720	Whitby 3,778
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
19,528.85	8,410.00	5,114.41	.....	.....	200.00	.....	6,394.26
4,745.66	7,042.12	23,080.03	.....	.....	499.80	.....	34,493.60
88,292.35	6,405.23	101,826.30	12,350.47	5,548.66	14,660.44	7,294.24	48,200.04
.....
29,600.88	3,986.30	22,417.01	3,813.17	741.09	3,756.70	1,015.48	11,767.50
34,299.45	5,099.99	28,863.38	5,130.71	1,720.66	5,609.32	1,385.78	16,996.04
9,508.35	2,960.76	13,537.82	1,276.87	329.83	1,310.93	581.82	4,568.27
.....
12,561.51	552.79	7,779.10	325.48	609.19	919.80	1,336.41	7,966.54
37,286.49	.....	.....	.....	.....	.....	.....	.....
21,248.48	.....	.....	.....	3,618.02	2,477.92	1,713.00	1,340.13
.....
257,072.02	34,457.19	202,618.05	22,896.70	12,567.45	29,434.91	13,326.73	131,726.38
.....	6,452.74	5,511.34	.....	1,132.25	10.00	1,135.38	10,465.52
48,000.00	3,066.26	.....	.....	2,500.00	5,000.00	2,500.00	5,000.00
4,835.48	1,053.49	9,179.00	1,688.89	382.17	599.77	969.87	8,369.03
1,301.43	1,198.09	5,429.47	1,873.49	.....	27.77	.....	258.35
.....
78,105.89	6,146.37	48,415.24	6,125.95	2,781.78	7,313.47	2,972.84	36,495.73
.....
389,314.82	52,374.14	271,153.10	32,585.03	19,363.65	42,385.92	20,904.82	192,315.01
.....
389,314.82	52,374.14	271,153.10	32,585.03	19,363.65	42,385.92	20,904.82	192,315.01
.....
12,326.85	.....	54,689.71	8,477.92	8,372.77	8,064.34	11,302.00	26,574.92
4,655.48	.....	.....	5.19	.....	.....	.....	1,722.01
2,198.74	.....	.....	966.63	.....	895.14	.....	.....
283.69	260.13	3,962.50	334.69	2.00	44.25	32.50	1,074.99
.....
19,464.76	260.13	58,652.21	9,784.43	8,374.77	9,003.73	11,334.50	29,371.92
.....
78,105.89	6,146.37	48,415.24	6,125.95	2,781.78	7,313.47	2,972.84	36,495.73
79,830.79	5,617.17	23,277.45	2,333.12	2,086.77	8,108.54	1,113.56	26,976.96
1,839.91	.....	.....	50.00	.....	.....	.....	.....
.....
159,776.59	11,763.54	71,692.69	8,509.07	4,868.55	15,422.01	4,086.40	63,472.69
.....
185,298.15	10,000.00	110,310.29	10,522.08	2,627.23	8,935.66	3,698.00	50,037.58
.....
24,775.32	30,350.47	30,497.91	3,769.45	3,493.10	9,024.52	1,785.92	49,432.82
.....
210,073.47	40,350.47	140,808.20	14,291.53	6,120.33	17,960.18	5,483.92	99,470.40
.....
389,314.82	52,374.14	271,153.10	32,585.03	19,363.65	42,385.92	20,904.82	192,315.01
.....
6.3	0.5	26.3	36.9	50.5	25.6	63.2	18.8

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded

THUNDER BAY

Municipality	Williams- burg P.V.	Winchester	EASTERN ONTARIO SYSTEM SUMMARY	Fort William
Population		1,029		24,231
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings		299.85	1,076,979.94	48,927.62
Substation equipment			994,212.75	126,347.93
Distribution system—overhead	3,389.77	9,807.63	2,741,618.75	154,538.98
Distribution system—underground			367,424.31	
Line transformers	1,959.82	3,107.53	944,576.01	69,172.80
Meters	2,306.57	5,355.79	1,097,178.55	68,332.45
Street light equipment, regular	174.61	719.87	427,559.85	40,087.74
Street light equipment, ornamental				
Miscellaneous construction expense	531.25	698.09	316,838.08	6,376.14
Steam or hydraulic plant			100,142.49	
Old plant		1,100.00	125,923.88	293,762.46
Total plant	8,362.02	21,088.76	8,192,454.61	807,546.12
Bank and cash balance	2,604.47	3,726.71	319,768.47	27,781.61
Securities and investments	16,000.00	7,000.00	895,941.88	86,500.00
Accounts receivable	927.08	1,038.86	438,506.90	39,644.55
Inventories	17.28		114,267.70	10,305.94
Sinking fund on local debentures			822,400.11	104,171.64
Equity in H-E.P.C. systems	4,762.26	15,649.09	1,706,790.06	448,922.46
Other assets			3,375.59	
Total assets	32,673.11	48,503.42	12,493,505.32	1,524,872.32
Deficit			120.82	
Total	32,673.11	48,503.42	12,493,626.14	1,524,872.32
LIABILITIES				
Debenture balance		4,318.80	1,989,092.40	300,000.00
Accounts payable			177,339.22	25,134.58
Bank overdraft			20,957.47	
Other liabilities	479.87	10.00	68,617.72	22,792.13
Total liabilities	479.87	4,328.80	2,256,006.81	347,926.71
RESERVES				
For equity in H-E.P.C. systems	4,762.26	15,649.09	1,706,790.06	448,922.46
For depreciation	2,666.72	7,828.68	2,151,146.71	117,841.31
Other reserves	397.20		511,843.10	19,609.28
Total reserves	7,826.18	23,477.77	4,369,779.87	586,373.05
SURPLUS				
Debentures paid	2,750.00	6,331.20	2,154,847.15	367,650.00
Local sinking fund			822,400.11	104,171.64
Operating surplus	21,617.06	14,365.65	2,890,592.20	118,750.92
Total surplus	24,367.06	20,696.85	5,867,839.46	590,572.56
Total liabilities, reserves and surplus ..	32,673.11	48,503.42	12,493,626.14	1,524,872.32
Percentage of net debt to total assets ..	1.7	13.2	14.0	25.1

“A”—Concluded

Hydro Municipalities as at December 31, 1937

SYSTEM		NORTHERN ONTARIO PROPERTIES— SUDBURY DISTRICT				
Nipigon Twp.	Port Arthur 20,045	THUNDER BAY SYSTEM SUMMARY	Capreol 1,745	Sudbury 24,440	SUDBURY DISTRICT SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
215.03	431,864.84	481,007.49	450.00	26,000.00	26,450.00	10,785,473.59
.....	293,150.07	419,498.00	9,527.32	47,267.94	56,795.26	22,900,269.21
16,099.93	470,492.17	641,131.08	12,248.48	284,470.99	296,719.47	22,699,652.43
.....	.....	.....	.....	.....	.....	6,100,282.76
2,870.80	74,734.54	146,778.14	3,581.55	65,508.72	69,090.27	10,128,591.29
3,108.87	91,045.83	162,487.15	4,806.49	82,537.87	87,344.36	9,234,773.90
1,497.05	78,384.46	119,969.25	818.96	67,619.36	68,438.32	2,610,137.97
.....	.....	.....	.....	.....	.....	1,508,564.76
133.53	31,780.61	38,290.28	860.23	9,009.03	9,869.26	4,389,592.08
.....	324,027.37	324,027.37	.....	.....	.....	496,186.33
.....	.....	293,762.46	.....	.....	.....	4,878,609.01
23,925.21	1,795,479.89	2,626,951.22	32,293.03	582,413.91	614,706.94	95,732,133.33
2,509.48	82,266.25	112,557.34	50.69	39,490.98	39,541.67	3,080,864.13
732.02	731,044.69	818,276.71	.....	.....	.....	4,469,369.04
958.19	91,311.10	131,913.84	579.53	16,019.38	16,598.91	4,240,741.41
.....	17,634.12	27,940.06	7.88	7,525.67	7,533.55	1,336,527.60
.....	106,896.10	211,067.74	.....	.....	.....	10,003,873.93
3,190.76	1,518,550.35	1,970,663.57	.....	.....	.....	40,032,438.34
.....	367.57	367.57	180.00	25,014.33	25,194.33	186,252.23
31,315.66	4,343,550.07	5,899,738.05	33,111.13	670,464.27	703,575.40	159,082,200.01
.....	.....	.....	.....	.....	.....	24,575.56
31,315.66	4,343,550.07	5,899,738.05	33,111.13	670,464.27	703,575.40	159,106,775.57
4,866.96	124,407.42	429,274.38	2,796.55	150,201.41	152,997.96	32,447,411.68
537.89	83,853.44	109,525.91	5,732.71	32,229.16	37,961.87	2,912,960.24
.....	.....	22,792.13	180.00	25,014.33	25,194.33	34,787.51
.....	.....	.....	.....	.....	.....	3,216,028.08
5,404.85	208,260.86	561,592.42	8,709.26	207,444.90	216,154.16	38,611,187.51
3,190.76	1,518,550.35	1,970,663.57	.....	.....	.....	40,032,438.34
5,025.07	569,113.71	691,980.09	1,845.00	27,765.25	29,610.25	21,034,164.68
.....	79,111.44	98,720.72	40.75	17,168.10	17,208.85	2,802,650.84
8,215.83	2,166,775.50	2,761,364.38	1,885.75	44,933.35	46,819.10	63,869,253.86
5,133.04	517,692.58	890,475.62	16,203.45	317,137.12	333,340.57	28,468,539.78
.....	106,896.10	211,067.74	.....	.....	.....	10,003,873.93
12,561.94	1,343,925.03	1,475,237.89	6,312.67	100,948.90	107,261.57	18,153,920.49
17,694.98	1,968,513.71	2,576,781.25	22,516.12	418,086.02	440,602.14	56,626,334.20
31,315.66	4,343,550.07	5,899,738.05	33,111.13	670,464.27	703,575.40	159,106,775.57
19.2	3.7	9.4	26.3	30.9	30.7	25.2

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig 452	Alvinston	Amherst- burg 2,879
Population.....	1,993	P.V.		643	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	10,545.76	4,535.81	2,355.16	3,914.60	19,802.82
Commercial light service.....	4,551.65	1,208.65	1,381.48	2,583.25	6,564.65
Commercial power service.....	15,266.09	1,239.52	1,138.76	226.83	5,649.37
Municipal power.....	647.72			295.96	
Street lighting.....	1,903.71	744.00	648.00	1,854.00	2,373.28
Merchandise.....	38.89				
Miscellaneous.....	422.31	255.79	278.54	361.24	277.21
Total earnings.....	33,376.13	7,983.77	5,801.94	9,235.88	34,667.33
EXPENSES					
Power purchased.....	24,097.88	5,136.78	4,001.07	5,418.78	20,160.36
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,150.96	425.20	141.80	166.89	1,569.62
Line transformer maintenance.....	145.66			29.05	25.70
Meter maintenance.....	350.53			3.15	211.05
Consumers' premises expenses.....	227.66				804.05
Street lighting, operation and main- tenance.....	578.85	50.73	61.94	48.27	348.57
Promotion of business.....	141.10	102.16			
Billing and collecting.....	660.51		221.00	421.40	1,955.69
General office, salaries and expenses...	372.47	545.04	71.56	58.61	1,573.94
Undistributed expenses.....	162.61		23.24	9.27	96.55
Truck operation and maintenance....	308.95				338.27
Interest.....		97.81		482.01	969.56
Sinking fund and principal payments on debentures.....		728.65		1,308.76	1,000.00
Depreciation.....	1,416.00	425.00	477.00	686.00	2,169.00
Other reserves.....					
Total operating costs and fixed charges.....	30,613.18	7,511.37	4,997.61	8,632.19	31,222.36
Net surplus.....	2,762.95	472.40	804.33	603.69	3,444.97
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	491	150	132	165	638
Commercial light service.....	90	27	41	53	123
Power service.....	15	3	2	2	14
Total.....	596	180	175	220	775

"B"

Hydro Municipalities for Year Ended December 31, 1937

Ancaster Twp.	Arkona 415	Aylmer 1,995	Ayr 770	Baden P.V.	Beachville P.V.	Beamsville 1,208
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,060.25	2,812.40	10,215.49	5,329.48	3,645.57	2,898.59	12,161.30
1,779.90	1,871.38	7,337.06	1,712.11	1,832.80	680.13	
234.93	168.23	4,436.81	642.81	5,818.76	11,386.18	
293.08	.....	949.21	.....	.....	.....
1,054.00	1,000.00	2,482.50	1,028.00	711.00	517.00	
.....	0.36	1,294.89	6.70	37.68	209.32	.....
12,422.16	5,852.37	26,715.96	8,719.10	12,045.81	15,691.22	*12,161.30
7,414.41	3,267.97	17,084.13	5,398.58	9,304.43	13,170.83	6,495.83
853.29	300.68	1,670.91	572.83	219.94	350.72	1,291.53
71.31	.....	98.33	.....	.....	.....
264.55	33.05	384.84	29.60	123.25	114.49	
142.26	.....	84.02	89.37	0.75	119.47	
143.32	35.83	284.82	86.40	102.09	84.77	
.....	.....	136.32	.....	.....	.....	858.33
859.14	163.87	819.89	373.33	406.57	421.61	
638.82	67.36	766.04	51.50	79.90	129.67	
52.52	4.50	61.81	13.16	16.88	.....
476.11	474.64	919.96	290.42	70.41	86.37	
367.50	697.72	1,587.96	424.99	254.85	271.42	.....
970.00	364.00	1,588.00	633.00	483.00	695.00	.....
12,253.23	5,409.62	25,487.03	7,963.18	11,062.07	15,444.35	*8,645.69
168.93	442.75	1,228.93	755.92	983.74	246.87	3,515.61
289	103	671	213	147	139	340
39	33	153	45	40	23	73
6	2	11	5	2	4	8
334	138	835	263	189	166	421

*Eight months operation.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Belle River	Blenheim	Blyth	Bolton	Bothwell
Population.....	748	1,755	624	569	642
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,017.94	8,366.52	3,571.20	4,211.35	2,509.90
Commercial light service.....	1,923.25	6,489.23	1,779.49	1,197.17	1,331.58
Commercial power service.....	62.37	2,523.06	463.20	1,928.61	641.49
Municipal power.....	971.90	1,659.80		59.11	138.35
Street lighting.....	963.00	2,518.50	1,580.00	1,058.52	1,293.00
Merchandise.....					7.78
Miscellaneous.....	31.25	177.10	14.20	88.79	584.61
Total earnings.....	7,969.71	21,734.21	7,408.09	8,543.55	6,506.71
EXPENSES					
Power purchased.....	4,481.92	12,665.21	4,222.64	4,496.37	4,317.74
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	538.55	800.75	219.84	441.21	195.16
Line transformer maintenance.....	149.21	80.22			
Meter maintenance.....	111.62	332.80	68.69	97.14	2.66
Consumers' premises expenses.....	5.99	403.12		73.18	
Street lighting, operation and maintenance.....	145.32	432.90	96.32	124.97	81.95
Promotion of business.....		5.73		126.74	
Billing and collecting.....	407.07	1,031.51	233.86		209.18
General office, salaries and expenses...	408.77	1,471.84	31.60	471.04	98.39
Undistributed expenses.....	11.10	47.96	60.28		2.24
Truck operation and maintenance.....					
Interest.....		419.75	301.27	218.75	148.25
Sinking fund and principal payments on debentures.....		602.00	981.46	656.30	215.00
Depreciation.....	800.00	1,582.00	511.00	634.00	517.00
Other reserves.....		86.89			
Total operating costs and fixed charges.....	7,059.55	19,962.68	6,726.96	7,339.70	5,787.57
Net surplus.....	910.16	1,771.53	681.13	1,203.85	719.14
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	227	529	171	162	176
Commercial light service.....	45	125	55	40	52
Power service.....	2	11	3	10	7
Total.....	274	665	229	212	235

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Brampton 5,568	Brantford 31,232	Brantford Twp.	Bridgeport P.V.	Brigden P.V.	Brussels 787	Burford P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$z c.	\$ c.	\$ c.
38,658.02	171,423.00	21,288.76	4,052.99	2,315.99	4,920.44	4,031.07
18,320.83	71,003.69	4,292.84	866.81	2,041.32	2,744.06	1,090.39
18,331.54	212,732.66	3,108.53	270.94	674.99	742.66	967.17
1,698.57	23,395.77	.....	.....	.....	.....	.....
5,473.00	33,268.31	4,072.75	723.00	800.00	1,296.00	670.00
.....
780.89	5,705.44	778.33	.....	179.82	138.51	232.79
83,262.85	517,528.87	33,541.21	5,913.74	6,012.12	9,841.67	6,991.42
65,581.96	362,806.49	17,711.43	3,458.26	3,977.17	5,406.31	4,265.01
.....	7,778.36	.....	.....	.....	.....	.....
168.50	1,121.08	.....	.....	.....	.....	.....
2,144.95	17,395.46	872.79	165.43	292.10	317.20	211.27
292.71	272.12	74.93	.....	4.50	.....	.....
855.36	4,888.13	91.94	32.00	4.25	201.35	33.28
240.21	3,691.39	639.78	41.84	.....	.....	123.94
615.58	5,138.56	663.24	122.40	68.75	129.52	119.96
.....	92.00	.....	.....	.....	.....	.....
1,830.72	10,862.18	1,695.64	313.81	280.13	.....	433.61
1,455.41	9,686.00	999.68	32.14	45.82	649.63	167.76
172.43	2,742.36	12.86	2.43	8.79	3.27	6.88
244.63	2,117.64	.....	.....	.....	.....	.....
312.06	6,107.32	675.55	492.71	10.64	549.76	.....
2,173.68	15,750.00	4,108.43	703.74	.....	1,208.03	.....
5,082.00	28,837.00	2,827.00	588.00	408.00	667.00	534.00
100.00	3,000.00	40.00	.....	.....	.....	.....
81,270.20	482,286.09	30,413.27	5,952.76	5,100.15	9,132.07	5,895.71
1,992.65	35,242.78	3,127.94	.....	911.97	709.60	1,095.71
.....	.....	.....	39.02	.....	.....	.....
1,435	7,684	910	147	112	232	195
241	1,116	49	18	45	66	29
51	217	5	3	5	3	2
1,727	9,017	964	168	162	301	226

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Burgess- ville P.V.	Caledonia	Campbell- ville P.V.	Cayuga	Chatham
Population.....		1,370		674	15,910
EARNINGS					
Domestic service.....	1,428.99	5,795.42	1,415.96	3,572.78	84,215.59
Commercial light service.....	582.14	3,893.27	472.38	3,171.71	76,583.60
Commercial power service.....	222.02	1,645.56		1,018.45	64,250.37
Municipal power.....					6,250.04
Street lighting.....	312.00	1,755.96	480.00	1,458.00	19,270.83
Merchandise.....				65.77	686.85
Miscellaneous.....	0.51	75.50	58.13	69.19	2,522.82
Total earnings.....	2,545.66	13,165.71	2,426.47	9,355.90	253,780.10
EXPENSES					
Power purchased.....	1,788.56	7,713.48	1,497.64	4,407.93	133,214.50
Substation operation.....					7,233.02
Substation maintenance.....					1,860.25
Distribution system, operation and maintenance.....	161.73	1,164.88	105.86	402.56	5,140.31
Line transformer maintenance.....	27.23	157.81		3.90	627.10
Meter maintenance.....	2.40	311.53		127.34	5,710.03
Consumers' premises expenses.....					2,831.46
Street lighting, operation and main- tenance.....	16.21	237.30	42.38	190.62	4,343.21
Promotion of business.....					2,062.52
Billing and collecting.....	109.84	701.82		577.79	9,603.45
General office, salaries and expenses...	36.93	187.65	84.49	436.39	14,149.91
Undistributed expenses.....	0.77	91.74		62.77	3,557.42
Truck operation and maintenance.....		219.88			1,792.13
Interest.....		58.19	163.54	583.08	10,282.43
Sinking fund and principal payments on debentures.....		303.53	324.70	1,090.51	18,030.46
Depreciation.....	229.00	761.00	136.00	626.00	17,797.00
Other reserves.....				50.00	
Total operating costs and fixed charges.....	2,372.67	11,908.81	2,354.61	8,558.89	238,235.20
Net surplus.....	172.99	1,256.90	71.86	797.01	15,544.90
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	56	390	46	149	3,959
Commercial light service.....	15	91	9	56	763
Power service.....	2	6		6	104
Total.....	73	487	55	211	4,826

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Chippawa	Clifford	Clinton	Comber	Cottam	Courtright	Dashwood
1,187	441	1,865	P.V.	P.V.	286	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,586.29	2,333.26	12,074.60	2,109.09	2,458.40	1,449.37	1,452.39
1,848.59	1,780.85	7,238.45	2,192.56	1,393.60	1,045.85	978.35
43.73	405.45	3,933.75	3,180.78	317.43	.....	1,096.72
1,066.13	.....	1,042.77	.....	.....	696.09	.....
1,178.11	823.62	2,101.33	662.00	480.00	774.00	451.00
.....	.....	353.82	.....	.....	.....	.....
130.33	21.63	1,164.47	182.54	139.09	45.56	94.01
11,853.18	5,364.81	27,909.19	8,326.97	4,788.52	4,010.97	4,072.47
5,742.97	3,360.63	15,705.15	5,420.14	2,351.66	2,461.10	3,008.42
.....	.....	100.00	.....	.....	.....	.....
807.89	97.33	687.88	617.76	58.84	56.36	108.96
78.32	.....	.....	.....	.....	.....	14.13
240.25	25.85	244.42	146.99	22.11	.....	1.35
299.15	38.66	104.00	.....	.....	.....	.....
407.36	55.59	268.32	94.89	26.00	52.00	34.56
.....
383.57	314.46	848.15	211.91	.....	149.69	123.44
651.30	62.51	1,962.14	379.75	421.07	20.41	38.65
116.57	.....	106.99	18.77	.....	1.32	6.33
.....	.....	123.73	.....	.....	.....	.....
249.17	340.46	2,062.42	48.04	312.23	97.18	96.98
962.12	209.97	972.49	183.00	440.91	749.22	136.96
1,001.00	324.00	2,249.00	506.00	412.00	238.00	250.00
.....
10,939.67	4,829.46	25,434.69	7,627.25	4,044.82	3,825.28	3,819.78
913.51	535.35	2,474.50	699.72	743.70	185.59	252.69
.....
330	113	542	101	107	66	80
46	40	130	49	29	26	30
2	1	16	3	1	1	2
378	154	688	153	137	93	112

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Delaware	Dorchester	Drayton	Dresden	Drumbo
Population.....	P.V.	P.V.	566	1,468	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,515.27	2,320.57	3,169.29	6,399.28	1,993.89
Commercial light service.....	627.41	864.04	2,091.01	5,294.68	827.87
Commercial power service.....		261.87	956.93	3,523.79	547.67
Municipal power.....				148.09	
Street lighting.....	264.00	672.55	960.00	1,876.32	507.00
Merchandise.....					
Miscellaneous.....	116.82	123.48	223.76	1,739.38	63.85
Total earnings.....	2,523.50	4,242.51	7,400.99	18,981.54	3,940.28
EXPENSES					
Power purchased.....	1,615.73	2,901.32	4,927.07	10,945.02	2,177.40
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	31.17	66.81	227.10	2,100.28	207.08
Line transformer maintenance.....		2.49			
Meter maintenance.....		112.42	61.75	198.51	15.60
Consumers' premises expenses.....				31.55	
Street lighting, operation and maintenance.....	8.10	24.38	125.01	257.42	87.90
Promotion of business.....	67.37	20.00	31.10		
Billing and collecting.....	148.88	236.89		768.19	221.57
General office, salaries and expenses...	33.92	42.64	356.52	855.47	98.72
Undistributed expenses.....				78.16	1.38
Truck operation and maintenance.....				263.67	
Interest.....	84.84	99.44	329.98		94.60
Sinking fund and principal payments on debentures.....	176.15	180.28	363.57		198.13
Depreciation.....	176.00	406.00	605.00	917.00	320.00
Other reserves.....					
Total operating costs and fixed charges.....	2,342.16	4,092.67	7,027.10	16,415.27	3,422.38
Net surplus.....	181.34	149.84	373.89	2,566.27	517.90
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	59	141	161	388	88
Commercial light service.....	17	29	67	118	27
Power service.....		2	5	10	1
Total.....	76	172	233	516	116

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Dublin P.V.	Dundas 4,757	Dunnville 4,001	Dutton 776	East York Twp.	Elmira 2,063	Elora 1,138
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,482.23	21,741.85	12,982.71	3,146.13	184,073.34	15,875.30	7,406.09
795.62	11,483.73	13,450.21	2,485.81	27,377.69	7,180.66	3,974.83
612.35	23,727.22	10,384.00	3,081.68	35,885.84	5,493.03	2,598.27
.....	365.91	2,510.70	.....	5,699.70	835.75	.....
700.00	5,518.00	3,679.65	1,021.44	19,632.37	1,834.00	1,687.92
.....	.....	.....	.....	.....	.....	33.52
.....	207.30	645.67	206.83	706.35	901.60	408.22
3,590.20	63,044.01	43,652.94	9,941.89	273,375.29	32,120.34	16,108.85
2,094.00	41,637.40	25,398.50	7,129.84	164,790.40	18,550.16	9,586.24
.....	498.49	458.38	.....	37.12	.....	.....
100.49	3,964.35	2,294.66	350.30	7,908.66	1,245.05	2,126.34
.....	145.24	89.25	20.58	1,053.83	133.69	34.39
.....	777.78	737.80	99.80	3,929.77	.....	151.83
.....	80.95	.....	13.79	3,590.10	864.47	.....
66.95	1,061.42	888.71	180.62	2,426.49	99.56	222.77
.....	.....	163.46	2.77	122.30	34.86	57.50
98.85	1,198.66	823.55	330.30	13,900.04	664.74	765.55
85.32	1,602.88	1,430.08	150.25	12,182.65	841.07	521.52
9.56	154.68	63.40	12.67	2,111.37	320.71	186.82
.....	934.62	241.29	.....	.....	336.64	114.32
19.72	965.29	2,281.21	.....	12,501.34	1,057.83	86.96
.....	2,560.87	3,118.90	.....	17,277.67	1,955.37	643.56
320.00	4,586.00	3,576.00	632.00	14,485.33	2,243.00	1,205.00
.....	.....	.....	.....	500.00	.....	.....
2,794.89	60,168.63	41,565.19	8,922.92	256,817.07	28,347.15	15,702.80
795.31	2,875.38	2,087.75	1,018.97	16,558.22	3,773.19	406.05
.....
.. 50	1,224	868	212	9,200	519	326
19	184	214	65	391	117	73
2	36	25	9	37	21	2
71	1,444	1,107	286	9,628	657	401

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Embro	Erieau	Erie Beach	Essex
Population	449	238	26	1,798
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	2,710.37	3,531.94	1,625.66	8,073.44
Commercial light service	1,441.98	1,351.69	336.77	6,719.51
Commercial power service	1,083.73	507.07		6,347.86
Municipal power				1,735.52
Street lighting	672.00	394.50		2,074.08
Merchandise				
Miscellaneous	86.60	24.43	18.97	540.12
Total earnings	5,994.68	5,809.63	1,981.40	25,490.53
EXPENSES				
Power purchased	3,668.58	3,497.50	1,017.87	14,107.43
Substation operation				
Substation maintenance				
Distribution system, operation and maintenance	189.18	315.59	161.84	842.32
Line transformer maintenance		25.45	43.11	91.79
Meter maintenance	14.40	134.04	148.10	339.96
Consumers' premises expenses	58.11	288.64	9.63	57.63
Street lighting, operation and maintenance	105.68	64.14		297.92
Promotion of business	60.00			43.00
Billing and collecting	253.77	475.46	187.55	1,208.66
General office, salaries and expenses	97.16	203.74	7.02	1,248.98
Undistributed expenses		2.01	0.63	172.21
Truck operation and maintenance				313.35
Interest	104.87	208.30	127.91	590.56
Sinking fund and principal payments on debentures	549.02	410.26	160.62	958.11
Depreciation	550.00	412.00	94.00	1,999.00
Other reserves		26.95		65.00
Total operating costs and fixed charges	5,650.77	6,064.08	1,958.28	22,335.92
Net surplus	343.91		23.12	3,154.61
Net loss		254.45		
NUMBER OF CONSUMERS				
Domestic service	111	177	79	459
Commercial light service	46	14	03	118
Power service	1	2		19
Total	158	193	82	596

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Etobicoke Twp.	Exeter 1,629	Fergus 2,785	Fonthill 803	Forest 1,586	Galt 14,119	Georgetown 2,189
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
128,521.51	10,529.15	16,477.22	4,880.91	10,694.50	87,306.24	16,686.99
19,353.99	5,422.31	7,369.46	1,351.15	5,520.10	41,160.25	7,037.67
20,582.08	2,883.70	14,584.79	317.30	3,520.82	100,665.80	23,487.72
4,013.60	493.86	608.92	219.27	900.39	5,498.27	543.13
13,607.97	2,711.55	2,719.37	1,065.00	2,321.00	15,660.50	2,650.89
.....	304.33	8.20	.....	602.19	.....	.....
76.00	875.75	60.75	.....	782.94	3,966.75	641.47
186,155.15	23,220.65	41,828.71	7,833.63	24,341.94	254,257.81	51,047.87
110,611.15	14,250.23	31,520.05	3,191.40	14,387.97	164,663.31	36,806.79
.....	.....	.....	.....	.....	3,731.72	.....
.....	.....	.....	.....	.....	106.19	.....
7,024.46	420.01	1,076.78	481.74	1,659.40	3,319.87	1,980.65
435.73	.....	167.83	7.50	.....	207.96	302.64
1,369.27	58.06	365.10	92.81	271.28	1,863.53	669.40
3,750.11	106.65	.....	18.19	529.93	721.64	308.92
732.94	303.69	632.94	77.11	338.64	2,309.03	568.02
.....	.....	393.42	.....	7.95	2,122.79	.....
5,905.26	759.10	801.03	432.94	816.18	4,495.74	1,626.35
4,500.28	1,801.01	784.63	106.51	1,965.46	6,048.51	1,120.03
1,994.37	93.13	185.52	.....	147.48	2,054.81	131.37
1,218.87	257.34	335.93	.....	207.20	431.04	417.73
8,531.91	259.65	783.48	786.54	432.60	7,605.85	486.67
14,276.65	1,167.46	1,280.32	1,259.45	945.98	20,644.97	966.31
12,709.00	1,641.00	1,812.00	524.00	1,573.00	24,835.00	2,288.00
.....
173,060.00	21,117.33	40,139.03	6,978.19	23,283.07	245,161.96	47,672.88
13,095.15	2,103.32	1,689.68	855.44	1,058.87	9,095.85	3,374.99
.....
3,975	458	658	218	458	3,715	733
244	117	110	33	118	495	129
24	9	14	4	21	109	28
4,243	584	782	255	597	4,319	890

STATEMENT

Detailed Operating Reports of Electrical Departments of

**NIAGARA
SYSTEM—Continued**

Municipality.....	Glencoe	Goderich	Granton	Guelph	Hagers- ville
Population.....	778	4,336	P.V.	21,455	1,345
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,027.38	31,779.40	1,824.58	105,593.83	5,378.01
Commercial light service.....	3,623.31	16,415.78	1,015.75	54,727.29	5,076.34
Commercial power service.....	1,789.12	9,944.41	395.85	120,365.16	14,088.48
Municipal power.....	1,747.73	2,953.70	.....	12,999.94	.....
Street lighting.....	1,962.00	4,001.84	370.00	18,867.05	2,050.00
Merchandise.....	.....	.....	.....	578.69	.....
Miscellaneous.....	295.86	395.82	154.58	1,035.86	735.96
Total earnings.....	14,445.40	65,490.95	3,760.76	314,167.82	27,328.79
EXPENSES					
Power purchased.....	8,427.62	40,044.46	2,345.52	216,973.24	18,961.57
Substation operation.....	.....	1,973.48	.....	3,747.16	.....
Substation maintenance.....	.....	.....	.....	.....	.....
Distribution system, operation and maintenance.....	346.68	2,612.16	170.21	7,988.30	2,079.13
Line transformer maintenance.....	.....	239.97	.....	1,598.54	49.15
Meter maintenance.....	70.84	537.35	20.74	3,663.54	282.86
Consumers' premises expenses.....	60.89	298.81	.....	1,466.94	.....
Street lighting, operation and main- tenance.....	215.02	597.01	88.31	6,137.00	385.25
Promotion of business.....	80.90	54.79	.....	1,538.00	.....
Billing and collecting.....	430.23	1,706.08	321.40	5,866.49	704.68
General office, salaries and expenses...	499.58	1,760.03	75.83	10,555.89	647.01
Undistributed expenses.....	138.15	148.53	6.41	1,547.23	62.53
Truck operation and maintenance.....	.....	213.35	.....	2,218.55	293.15
Interest.....	290.39	2,210.07	103.81	250.00	112.98
Sinking fund and principal payments on debentures.....	1,215.85	2,722.43	150.46	105.10	277.39
Depreciation.....	1,107.00	6,051.00	266.00	18,496.00	1,239.00
Other reserves.....	154.58	.....	60.00	192.05	.....
Total operating costs and fixed charges.....	13,037.73	61,169.52	3,608.69	282,344.03	25,094.70
Net surplus.....	1,407.67	4,321.43	152.07	31,823.79	2,234.09
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domestic service.....	215	1,211	83	5,226	350
Commercial light service.....	82	238	34	784	114
Power service.....	6	20	1	133	14
Total.....	303	1,469	118	6,143	478

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Hamilton	Harriston	Harrow	Hensall	Hespeler	Highgate	Humberstone
154,020	1,273	918	719	2,861	327	2,563
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
857,215.70	6,982.79	8,241.52	3,858.52	14,363.80	1,645.67	9,755.55
406,941.57	4,685.95	4,283.21	2,095.92	5,776.09	875.56	3,397.69
1,830,303.56	5,034.79	4,227.28	2,733.90	39,338.89	1,036.43	4,001.56
68,337.08	405.01	.....	.....	1,143.49	33.19	.....
123,775.35	1,551.00	1,319.67	1,006.00	3,107.00	567.00	1,481.79
.....	.....	194.95	.....	.....	.....	.....
70,120.18	74.15	45.18	351.41	682.06	147.36	340.84
3,356,693.44	18,733.69	18,311.81	10,045.75	64,411.33	4,305.21	18,977.43
2,264,785.63	11,557.16	13,076.78	6,598.53	47,263.64	2,709.84	10,246.62
59,111.76	.....	.....	.....	455.69	.....	.....
9,149.17	.....	.....	.....	.....	.....	.....
36,606.86	1,507.06	320.78	686.36	2,897.62	165.89	1,534.06
4,218.30	.....	0.90	.....	79.83	.....	.....
26,901.17	65.90	227.78	51.28	374.26	4.21	629.25
24,634.94	104.64	.....	.....	249.24	.....	.....
12,562.42	284.73	207.12	104.42	475.16	77.57	127.52
18,455.73	43.00	271.62	.....	.....	.....	.....
59,706.30	792.45	495.86	266.32	988.20	312.54	648.62
50,772.80	341.44	380.52	506.32	1,323.54	149.62	314.60
43,458.84	37.07	39.00	48.26	513.26	11.38	9.05
.....	59.01	.....	.....	316.13	.....	157.74
152,713.88	413.89	412.17	312.96	1,524.51	.....	900.00
278,543.78	622.75	656.40	549.47	2,207.75	.....	1,600.00
139,557.52	1,140.00	872.00	732.00	2,822.00	391.00	1,069.00
35,029.00	.....	84.00	.....	100.00	.....	.....
3,216,208.10	16,969.10	17,044.93	9,855.92	61,590.83	3,822.05	17,236.46
140,485.34	1,764.59	1,266.88	189.83	2,820.50	483.16	1,740.97
.....
38,510	350	269	185	721	98	595
5,068	105	76	60	100	35	67
1,251	13	5	13	29	6	5
44,829	468	350	258	850	139	667

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Ingersoll	Jarvis	Kingsville	Kitchener	Lambeth
Population.....	5,139	504	2,282	32,650	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	30,765.04	2,517.07	13,987.44	193,802.89	3,123.19
Commercial light service.....	16,358.91	1,793.25	6,721.15	112,324.46	1,220.74
Commercial power service.....	28,035.93	3,580.21	3,143.53	273,945.19	.....
Municipal power.....	1,394.94	.....	1,185.45	17,884.37	479.10
Street lighting.....	4,667.34	821.33	2,832.00	33,251.04	722.66
Merchandise.....	.....	.....	.....	.....	.....
Miscellaneous.....	761.92	96.21	1,293.30	3,495.74	64.58
Total earnings.....	81,984.08	8,808.07	29,162.87	634,703.69	5,610.27
EXPENSES					
Power purchased.....	57,824.09	6,036.70	15,289.30	463,631.75	3,497.55
Substation operation.....	404.19	.....	.....	6,283.26	.....
Substation maintenance.....	.....	.....	.....	1,561.66	.....
Distribution system, operation and maintenance.....	3,782.68	159.12	1,341.24	9,553.86	72.44
Line transformer maintenance.....	299.62	14.10	97.44	636.29	.....
Meter maintenance.....	927.41	179.97	619.78	6,041.83	13.35
Consumers' premises expenses.....	318.93	.....	310.35	7,186.54	.....
Street lighting, operation and maintenance.....	603.75	75.49	587.51	7,590.27	29.60
Promotion of business.....	560.79	.....	.....	1,950.69	65.81
Billing and collecting.....	1,477.82	493.80	1,684.19	14,145.06	304.69
General office, salaries and expenses...	4,448.83	51.47	1,076.74	10,907.24	45.62
Undistributed expenses.....	85.78	8.55	379.29	5,050.15	1.91
Truck operation and maintenance.....	390.06	.....	271.79	3,612.15	.....
Interest.....	3,441.81	275.76	1,623.35	8,619.00	2.00
Sinking fund and principal payments on debentures.....	.....	604.00	852.64	18,005.24	.....
Depreciation.....	4,184.00	463.00	2,168.00	35,515.00	400.00
Other reserves.....	.....	.....	119.26	.....	.....
Total operating costs and fixed charges.....	78,749.76	8,361.96	26,420.88	600,289.99	4,432.97
Net surplus.....	3,234.32	446.11	2,741.99	34,413.70	1,177.30
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domestic service.....	1,392	132	603	7,464	123
Commercial light service.....	237	43	150	1,028	25
Power service.....	43	4	14	242	2
Total.....	1,672	179	767	8,734	150

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

La Salle 782	Leamington 5,340	Listowel 2,819	London 73,091	London Twp. 4,099	Long Branch 4,099	Lucan 613
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,947.02	27,670.88	16,676.74	524,410.64	11,640.13	26,199.02	4,228.76
1,459.90	15,459.66	9,938.00	197,009.81	2,198.97	6,077.43	1,797.37
2,384.31	19,955.58	12,478.07	347,345.16	1,589.17	1,623.73	1,621.53
.....	2,162.08	1,062.43	77,962.94	.....	1,083.48	.....
330.00	5,414.58	3,938.83	56,556.93	944.50	3,945.56	994.02
.....	.....	42.31	.....	.....	.....	.....
94.73	2,034.27	757.89	24,036.57	321.41	30.00	310.32
10,215.96	72,697.05	44,894.27	1,227,322.05	16,694.18	38,959.22	8,952.00
6,343.75	43,026.43	30,070.38	764,721.90	11,880.55	19,710.47	5,190.84
.....	.....	78.54	19,015.28	.....	.....	.....
.....	.....	.....	12,097.59	.....	.....	.....
797.99	2,047.76	1,787.80	23,627.39	793.66	2,542.55	757.51
.....	2.82	349.84	3,142.54	.....	40.32	81.20
36.77	704.39	256.00	12,229.87	185.08	628.31	31.49
63.78	610.99	132.17	18,066.28	687.35	248.71	.....
22.00	1,265.06	845.27	9,300.11	235.88	318.38	81.81
.....	118.41	184.95	31,836.83	.....	.....	.....
364.96	1,875.69	909.80	29,611.80	679.11	2,132.84	656.19
405.68	2,930.32	1,785.28	42,170.49	439.46	2,283.32	333.17
81.85	562.14	106.71	12,721.04	5.75	692.22	42.73
.....	338.02	138.37	6,459.22	.....	.....	.....
557.64	1,564.50	182.88	26,773.87	337.63	722.97	174.17
799.87	2,625.63	950.52	74,945.19	626.81	2,350.89	314.51
949.00	3,824.00	3,058.00	107,582.34	889.00	2,495.00	746.00
48.95	.....	.....	3,264.39	.....	.....	.....
10,472.24	61,496.16	40,836.51	1,197,566.13	16,760.28	34,165.98	8,409.62
.....	11,200.89	4,057.76	29,755.92	.....	4,793.24	542.38
256.28	.....	.....	.....	66.10	.....	.....
203	1,392	747	17,862	386	1,216	175
18	257	151	2,094	23	97	45
4	28	21	442	4	5	7
225	1,677	919	20,398	413	1,318	227

STATEMENT
Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Lynden	Markham	Merlin	Merritton	Milton
Population.....	P.V.	1,112	P.V.	2,543	1,785
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,131.47	7,004.98	2,174.74	12,406.14	11,479.33
Commercial light service.....	791.09	2,914.08	1,821.86	2,698.68	5,417.52
Commercial power service.....	727.50	2,188.52	124.89	110,483.89	18,067.59
Municipal power.....		348.13			
Street lighting.....	440.00	1,344.00	652.50	3,342.83	2,031.08
Merchandise.....					522.60
Miscellaneous.....		316.79	315.32		760.72
Total earnings.....	4,090.06	14,116.50	5,089.31	128,931.54	38,278.84
EXPENSES					
Power purchased.....	2,547.95	9,608.50	2,535.28	107,545.24	27,658.09
Substation operation.....				276.77	
Substation maintenance.....					241.05
Distribution system, operation and maintenance.....	55.37	764.67	157.28	2,136.35	1,893.37
Line transformer maintenance.....				117.23	265.66
Meter maintenance.....	3.60	32.00	31.12	697.17	273.99
Consumers' premises expenses.....		130.51		9.60	
Street lighting, operation and maintenance.....	25.23	135.47	76.52	714.76	577.06
Promotion of business.....		20.00			195.09
Billing and collecting.....		897.78	203.79	1,134.85	1,048.67
General office, salaries and expenses...	207.16	216.54	234.02	1,789.02	1,500.58
Undistributed expenses.....			1.88	166.24	115.57
Truck operation and maintenance.....		212.61		235.83	603.64
Interest.....	110.74		328.92	1,206.73	371.50
Sinking fund and principal payments on debentures.....	191.02		848.08	1,862.79	867.04
Depreciation.....	311.00	862.00	424.00	2,899.00	2,138.00
Other reserves.....		50.00			
Total operating costs and fixed charges.....	3,452.07	12,930.08	4,840.89	120,791.58	37,749.31
Net surplus.....	637.99	1,186.42	248.42	8,139.96	529.53
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	88	294	110	660	471
Commercial light service.....	16	66	46	66	102
Power service.....	2	9	1	11	14
Total.....	106	369	157	737	587

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Milverton 987	Mimico 6,876	Mitchell 1,577	Moorefield P.V.	Mount Brydges P.V.	Newbury 276	New Hamburg 1,464
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,706.91	55,221.42	11,433.69	1,149.27	2,771.38	1,373.49	9,264.20
3,321.68	10,331.68	5,330.08	875.06	1,085.68	726.74	4,456.08
2,709.54	3,744.16	3,475.12	631.96	1,276.43	655.44	5,607.18
527.88	7,676.52	639.17	.....	.....	.....	.....
1,015.50	7,223.14	2,120.25	350.00	547.00	705.00	2,217.00
.....	.....	1,842.21	.....	.....	.....	186.91
77.75	.....	1,328.58	16.73	287.39	26.51	284.87
12,359.26	84,196.92	26,169.10	3,023.02	5,967.88	3,487.18	22,016.24
8,616.82	49,714.47	13,499.35	2,179.51	3,735.91	1,694.12	13,123.75
.....	.....	17.41	.....	.....	.....	210.83
766.31	7,936.76	786.99	46.45	222.28	87.56	703.24
.....	297.60	220.36	.....	.....	.....	23.86
2.40	1,696.24	370.80	14.60	22.80	18.00	376.23
49.22	721.74	300.24	.....	.....	.....	176.27
79.22	1,650.96	413.82	27.73	51.46	44.56	285.93
.....	.....	.....	.....	71.48	.....	.....
662.40	1,937.49	1,019.16	.....	190.03	.....	668.36
400.90	1,888.63	1,839.39	121.40	127.63	135.20	1,256.87
22.93	248.58	473.27	.....	.....	3.65	166.49
.....	442.49	295.84	.....	.....	.....	350.57
.....	3,763.41	.....	21.91	101.22	174.00	207.59
.....	6,206.76	.....	363.50	189.20	600.00	963.33
765.00	5,968.00	3,533.00	218.00	372.00	334.00	1,422.00
.....
11,365.20	82,473.13	22,769.63	2,993.10	5,084.01	3,091.09	19,935.32
994.06	1,723.79	3,399.47	29.92	883.87	396.09	2,080.92
.....
240	1,786	449	60	149	69	346
78	142	120	24	36	22	95
7	20	23	1	4	2	13
325	1,948	592	85	189	93	454

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	New Toronto	Niagara Falls	Niagara-on-the-Lake	North York Twp.
Population.....	6,848	18,747	1,563	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	35,622.58	138,864.47	14,688.37	126,532.62
Commercial light service.....	16,386.04	58,686.88	4,609.71	20,123.64
Commercial power service.....	129,977.15	67,348.77	790.98	30,252.25
Municipal power.....	11,647.17	17,683.17	1,582.04	4,703.90
Street lighting.....	7,329.96	27,358.84	2,910.52	3,953.57
Merchandise.....			1,127.23	
Miscellaneous.....	377.90	1,197.07	352.57	1,874.61
Total earnings.....	201,340.80	311,139.20	26,061.42	187,440.59
EXPENSES				
Power purchased.....	166,144.03	170,248.70	12,647.31	94,921.69
Substation operation.....		9,896.27		
Substation maintenance.....				
Distribution system, operation and maintenance.....	5,858.07	6,320.37	1,872.17	10,471.43
Line transformer maintenance.....	281.01	277.84		548.85
Meter maintenance.....	1,894.85	6,017.61	1.75	1,589.37
Consumers' premises expenses.....	88.13	777.87		2,804.12
Street lighting, operation and maintenance.....	1,338.23	2,434.26	1,112.99	740.81
Promotion of business.....			3.80	
Billing and collecting.....	2,949.39	8,379.52	1,346.19	5,183.17
General office, salaries and expenses.....	6,277.27	9,285.68	1,152.50	5,717.17
Undistributed expenses.....	1,133.99	4,516.45	152.33	1,416.24
Truck operation and maintenance.....	700.18	1,305.42	312.28	2,936.77
Interest.....	150.57	15,005.31	1,014.47	17,828.46
Sinking fund and principal payments on debentures.....	369.85	30,462.75	1,182.29	19,645.00
Depreciation.....	5,987.00	26,240.00	1,860.00	13,933.00
Other reserves.....				
Total operating costs and fixed charges.....	193,172.57	291,168.05	22,658.08	177,736.08
Net surplus.....	8,168.23	19,971.15	3,403.34	9,704.51
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	1,698	4,442	508	3,650
Commercial light service.....	197	692	84	274
Power service.....	32	86	9	39
Total.....	1,927	5,220	601	3,963

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Norwich	Oil Springs	Otterville	Palmerston	Paris	Parkhill	Petrolia	Plattsville
1,174	472	P.V.	1,410	4,315	997	2,720	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,843.37	1,418.80	2,260.39	8,378.73	22,710.82	5,220.34	11,925.93	2,294.89
3,804.03	1,339.37	1,963.82	4,695.87	8,250.89	3,476.02	7,358.74	995.46
1,375.05	6,903.98	313.60	4,567.64	13,059.75	186.83	23,866.59	1,221.96
573.62	.....	97.74	1,413.29	1,296.84	540.71	.....	.....
2,120.00	768.00	815.67	2,609.77	5,543.50	1,577.04	2,702.00	408.00
340.52	8.96	.....	.....	.....	.....	167.67	.....
143.96	480.69	54.55	827.05	3,320.30	63.52	522.69	63.59
16,200.55	10,919.80	5,505.77	22,492.35	54,182.10	11,064.46	46,543.62	4,983.90
10,146.77	7,163.20	3,530.63	13,525.51	30,106.48	6,748.55	27,928.69	2,962.01
.....	.....	.....	280.69	598.12	.....	.....	.....
.....	.....	.....	56.10	.....	.....	.....	.....
1,730.90	382.19	160.22	534.28	4,596.76	183.23	3,711.84	49.08
122.89	.....	45.43	101.33	246.89	.....	72.20	.....
167.49	3.43	1.90	202.96	547.40	38.10	474.46	120.88
254.43	.....	16.44	197.66	806.62	.....	225.52	.....
258.86	45.87	99.91	318.16	1,368.15	61.20	206.77	20.28
.....	.....	.....	151.75	267.17	.....	.....	.....
429.96	386.56	330.20	484.70	1,509.62	304.80	1,729.51	161.00
295.66	233.05	88.87	578.11	1,229.31	121.77	2,911.62	10.60
114.13	27.81	1.78	63.01	336.20	6.27	236.48	4.18
115.34	.....	.....	158.85	482.14	.....	521.41	.....
211.76	.....	.....	409.08	392.34	177.17	924.73	110.12
687.17	.....	.....	310.99	862.86	931.20	1,487.36	230.55
947.00	790.00	495.00	1,353.00	5,729.00	795.00	3,319.00	304.00
.....	.....	.....	.....	49.42	.....	232.71	.....
15,482.36	9,032.11	4,770.38	18,726.18	49,128.48	9,367.29	43,982.30	3,972.70
718.19	1,887.69	735.39	3,766.17	5,053.62	1,697.17	2,561.32	1,011.20
.....
369	82	121	388	1,065	252	732	107
87	32	46	92	182	75	170	24
6	33	4	12	23	3	76	1
462	147	171	492	1,270	330	978	132

STATEMENT
Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Point Edward 1,252	Port Colborne 6,196	Port Credit 1,755	Port Dalhousie 1,459	Port Dover 1,665
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,521.54	30,818.31	13,556.63	15,288.35	7,396.51
Commercial light service.....	2,130.53	15,409.68	5,640.43	2,606.38	4,486.83
Commercial power service.....	29,981.87	12,644.01	2,929.79	5,398.92	5,417.54
Municipal power.....		6,818.21	1,132.11		
Street lighting.....	1,599.96	7,998.58	2,750.00	1,578.00	2,682.12
Merchandise.....		777.59			
Miscellaneous.....	698.53	857.60	495.00	168.44	52.80
Total earnings.....	39,932.43	75,323.98	26,503.96	25,040.09	20,035.80
EXPENSES					
Power purchased.....	34,936.24	39,297.48	17,458.66	16,328.57	10,459.77
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	168.80	3,460.39	1,574.05	2,325.26	1,927.59
Line transformer maintenance.....	24.07	96.00	374.25	143.30	350.08
Meter maintenance.....	193.30	525.77	459.96	70.70	607.96
Consumers' premises expenses.....	31.18	342.61	603.15	630.63	39.25
Street lighting, operation and main- tenance.....	210.81	2,106.68	383.70	336.60	508.15
Promotion of business.....		172.85			
Billing and collecting.....		1,857.98	1,036.73	257.66	795.80
General office, salaries and expenses...	1,809.88	3,536.16	463.62	1,435.85	868.65
Undistributed expenses.....	15.62	168.95	8.94	49.50	78.74
Truck operation and maintenance.....		942.55		497.93	
Interest.....	333.62	3,790.13	318.94	441.18	386.94
Sinking fund and principal payments on debentures.....	547.01	8,314.44	650.41	475.29	1,450.23
Depreciation.....	1,193.00	4,965.00	1,647.00	1,063.00	1,496.00
Other reserves.....					
Total operating costs and fixed charges.....	39,463.53	69,576.99	24,979.41	24,055.47	18,969.16
Net surplus.....	468.90	5,746.99	1,524.55	984.62	1,066.64
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	285	1,403	465	583	593
Commercial light service.....	45	239	83	48	117
Power service.....	9	24	7	13	14
Total.....	339	1,666	555	644	724

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Port Rowan 666	Port Stanley 741	Preston 6,294	Princeton P.V.	Queenston P.V.	Richmond Hill 1,268	Ridgetown 1,983
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,028.09	12,146.45	31,589.53	2,089.72	3,095.13	7,650.23	8,720.96
1,826.17	4,342.10	17,798.68	723.52	983.39	3,894.28	6,022.15
95.98	3,066.24	41,829.17	2,426.32		1,604.30	3,026.49
.....	792.42	1,070.78	.....	.....	400.77	742.71
990.00	2,361.42	5,509.00	468.00	304.12	1,472.00	3,202.92
114.00	.....	.....	.....	.....	23.95	197.98
10.04	363.08	1,259.75	66.64	32.00	47.23	520.71
6,064.28	23,071.71	99,056.91	5,774.20	4,414.64	15,092.76	22,433.92
2,357.61	13,823.18	65,943.88	4,108.92	2,522.02	10,784.96	14,758.73
.....	.....	4,670.51	.....	.....	.....	.....
.....	.....	31.35	.....	.....	.....	.....
287.73	3,377.88	1,849.34	16.75	73.83	1,277.75	986.91
.....	21.11	225.52	1.50	.....	.....	7.48
7.15	229.48	1,116.14	64.46	13.45	151.60	448.54
.....	257.72	25.70	.....	41.51	113.51	453.39
52.31	224.92	891.25	75.08	9.50	332.10	318.07
.....
109.20	794.00	1,710.08	207.80	145.64	830.75	782.09
23.31	759.09	2,439.52	53.50	94.90	405.81	928.84
.....	129.09	959.69	.....	4.23	.....	106.45
.....	321.14	521.62	.....	.....	.....	.....
453.82	234.42	1,849.92	74.64	213.96	135.82	328.88
505.21	998.40	4,659.73	156.29	585.06	464.22	451.54
379.00	1,454.00	9,269.00	275.00	397.00	630.00	1,518.00
.....	.....	400.00	.....	.....	.....	.....
4,175.34	22,624.43	96,563.25	5,033.94	4,101.10	15,126.52	21,088.92
1,888.94	447.28	2,493.66	740.26	313.54	.....	1,345.00
.....	.....	.....	.....	.....	33.76	.....
114	642	1,492	83	68	339	566
40	106	221	19	12	63	141
3	9	42	3	.....	14	21
157	757	1,755	105	80	416	728

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Riverside	Rockwood	Rodney	St. Catharines	St. Clair Beach
Population	5,017	P.V.	724	26,834	100
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	37,453.23	3,345.01	3,236.34	134,194.30	2,018.15
Commercial light service	4,125.62	1,096.30	2,586.76	56,774.68	1,768.86
Commercial power service	4,167.00	425.41	2,222.51	144,494.69	310.39
Municipal power	1,286.44				
Street lighting	2,900.04	774.00	1,086.00	25,777.92	
Merchandise					
Miscellaneous	756.12	31.23	36.31	4,706.64	
Total earnings	50,688.45	5,671.95	9,167.92	365,948.23	4,097.40
EXPENSES					
Power purchased	27,512.66	3,407.13	5,678.58	237,185.48	2,651.43
Substation operation				5,937.16	
Substation maintenance					
Distribution system, operation and maintenance	1,710.25	220.48	311.10	13,767.42	207.17
Line transformer maintenance	209.18			1,630.29	21.32
Meter maintenance	547.99	111.98	177.10	4,315.42	29.73
Consumers' premises expenses	520.59	37.60	20.99	1,977.22	63.78
Street lighting, operation and main- tenance	438.33	91.47	51.46	3,040.56	
Promotion of business				280.93	
Billing and collecting	1,944.70		309.77	12,379.62	211.77
General office, salaries and expenses	2,503.45	555.22	457.60	8,264.53	138.83
Undistributed expenses	323.49		12.22	4,761.57	
Truck operation and maintenance	481.72			1,156.96	62.15
Interest	2,252.13	104.12		8,304.53	174.72
Sinking fund and principal payments on debentures	4,747.12	96.49		7,551.21	437.45
Depreciation	4,346.00	491.00	472.00	19,398.00	378.00
Other reserves			46.00		
Total operating costs and fixed charges	47,537.61	5,115.49	7,536.82	329,950.90	4,376.35
Net surplus	3,150.84	556.46	1,631.10	35,997.33	
Net loss					278.95
NUMBER OF CONSUMERS					
Domestic service	1,273	159	217	6,643	63
Commercial light service	64	35	75	785	6
Power service	8	2	6	150	1
Total	1,345	196	298	7,578	70

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

St. George	St. Jacobs	St. Marys	St. Thomas	Sarnia	Scarboro	Seaforth
P.V.	P.V.	4,023	16,088	18,230	Twp.	1,717
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,989.98	3,924.59	28,701.51	116,234.10	97,459.51	98,727.59	9,866.10
1,294.80	1,612.86	10,925.18	50,346.19	48,145.58	20,175.87	5,767.01
2,638.11	3,752.18	19,828.74	52,177.34	163,594.75	11,262.88	3,882.05
.....	.....	3,880.07	5,522.09	5,087.13	12,354.04	632.97
412.17	460.00	4,954.23	14,847.15	18,805.22	14,929.70	1,783.33
.....	.....	.....	.....	917.34	.....	.....
91.09	222.99	155.99	4,276.13	10,444.55	.....	107.09
7,426.15	9,972.62	68,445.72	243,403.00	344,454.08	157,450.08	22,038.55
5,059.03	7,354.32	37,024.39	174,329.55	216,879.36	83,259.79	15,026.41
.....	.....	1,456.94	7,935.04	8,343.80	48.99	210.75
.....	.....	357.72	834.35	215.56	.....	.....
38.86	66.79	2,187.72	10,845.71	8,338.27	5,922.82	1,268.95
.....	.....	136.24	1,028.94	530.25	863.84	227.24
114.28	4.50	1,228.21	2,917.12	3,975.43	3,340.63	256.47
.....	.....	419.32	4,998.99	1,384.47	1,524.37	210.03
134.38	27.48	1,350.16	2,930.68	5,829.29	1,748.31	402.69
.....	.....	517.19	2,756.06	2,278.49	.....	46.38
512.02	313.52	1,123.73	4,700.40	9,721.10	5,486.03	546.46
86.08	177.47	1,722.34	9,168.20	9,566.29	4,614.23	1,163.31
.....	25.61	295.05	5,070.80	6,189.51	1,937.27	172.30
.....	.....	833.47	1,304.50	1,173.81	1,445.31	201.62
145.23	33.70	1,811.21	79.31	4,565.51	8,099.45	.....
267.60	475.39	2,666.69	.....	14,583.59	16,807.51	.....
349.00	414.00	4,960.00	15,100.00	20,225.00	12,805.00	2,080.00
.....	.....	.....	.....	785.70	100.00	100.00
6,706.48	8,892.78	58,090.38	243,999.65	314,585.43	148,003.55	21,912.61
719.67	1,079.84	10,355.34	.....	29,868.65	9,446.53	125.94
.....	.....	.....	596.65	.....	.....	.....
145	126	1,046	4,196	4,658	4,769	458
36	28	182	633	638	373	118
3	7	39	76	83	38	14
184	161	1,267	4,905	5,379	5,180	590

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Simcoe	Spring- field	Stamford Twp.	Stouffville
Population.....	5,614	365		1,155
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	24,500.24	1,687.20	59,873.97	7,005.23
Commercial light service.....	26,383.82	778.95	9,119.87	3,231.37
Commercial power service.....	26,971.09	1,019.55	13,482.20	942.73
Municipal power.....	3,116.15		1,724.16	
Street lighting.....	4,620.10	569.28	7,722.00	1,512.00
Merchandise.....	453.71		1,739.50	
Miscellaneous.....	1,693.99	236.42	1,339.01	396.91
Total earnings.....	87,739.10	4,291.40	95,000.71	13,088.24
EXPENSES				
Power purchased.....	46,716.26	2,769.73	40,326.46	8,287.10
Substation operation.....				
Substation maintenance.....	549.70		1,070.84	
Distribution system, operation and maintenance.....	5,055.28	140.14	5,979.27	660.01
Line transformer maintenance.....	320.04	6.60	30.02	
Meter maintenance.....	1,139.93	37.07	1,428.73	187.15
Consumers' premises expenses.....	871.85	37.34	561.35	21.57
Street lighting, operation and main- tenance.....	1,219.64	94.21	1,049.46	217.95
Promotion of business.....	782.22		619.47	
Billing and collecting.....	1,734.85	408.80	2,615.02	413.46
General office, salaries and expenses.....	2,717.14	115.86	4,516.92	108.43
Undistributed expenses.....	254.50		1,154.98	
Truck operation and maintenance.....	436.96		1,461.58	
Interest.....	2,343.64	167.62	7,711.51	152.67
Sinking fund and principal payments on debentures.....	3,618.27	208.95	13,062.88	1,222.15
Depreciation.....	3,889.00	397.00	6,911.00	601.00
Other reserves.....	5,000.00		144.43	
Total operating costs and fixed charges.....	76,649.28	4,383.32	88,643.92	11,871.49
Net surplus.....	11,089.82		6,356.79	1,216.75
Net loss.....		91.92		
NUMBER OF CONSUMERS				
Domestic service.....	1,380	97	1,790	363
Commercial light service.....	347	30	135	86
Power service.....	40	3	18	5
Total.....	1,767	130	1,943	454

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Stratford	Strathroy	Streetsville	Sutton	Tavistock	Tecumseh	Thamesford
17,555	2,911	636	831	1,034	2,432	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
141,205.43	19,901.80	5,482.74	8,172.84	7,290.79	12,005.71	2,734.77
55,711.89	10,751.16	553.54	3,736.21	2,609.57	3,991.48	1,589.83
52,886.61	12,466.08	3,377.55	1,040.76	8,709.74	2,276.07	1,726.50
9,187.44	1,258.28			406.37		
16,567.92	4,053.96	935.50	2,010.50	1,293.84	1,281.20	522.50
1,266.24	191.69					
9,174.31	1,769.63	597.63	26.15	235.54		422.34
285,999.84	50,392.60	10,946.96	14,986.46	20,545.85	19,554.46	6,995.94
170,123.28	29,606.58	3,416.33	8,806.55	15,944.53	10,775.79	4,983.98
4,217.96	370.96	1,103.34				
1,175.59						
7,383.72	1,132.77	592.41	327.72	728.61	692.43	386.32
445.57	130.11	11.75		80.55	105.34	
3,727.88	468.76	8.85	107.03	256.35	717.03	2.25
2,014.58	454.72		160.79	117.22	251.93	50.69
2,023.56	906.98	124.76	120.42	32.28	240.44	45.06
1,451.89	1,665.96					140.00
5,885.32	963.24	663.84	471.02	629.75	1,404.50	201.86
8,941.58	2,463.39	203.25	253.75	299.84	1,142.74	76.17
2,890.77	300.73	56.35	27.70	56.68	25.77	
1,043.32	321.72		184.15		578.12	
17,775.00	1,545.99	691.88	652.71	150.70	637.80	59.23
8,339.60	1,778.99	909.29	1,668.20	239.61	1,700.72	139.70
22,873.00	3,751.00	700.00	986.00	948.00	1,683.00	508.00
		25.00				
260,312.62	45,861.90	8,507.05	13,766.04	19,484.12	19,955.61	6,593.26
25,687.22	4,530.70	2,439.91	1,220.42	1,061.73		402.68
					401.15	
4,247	811	167	421	277	548	129
601	169	43	84	81	49	43
123	28	4	3	8	3	7
4,971	1,008	214	508	366	600	179

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Thames- ville 788	Thedford 585	Thorn- dale P.V.	Thorold 4,959	Tilbury 1,992
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,688.76	2,930.43	1,582.25	18,414.32	6,965.79
Commercial light service.....	2,930.06	1,783.92	774.95	6,576.86	8,594.65
Commercial power service.....	1,432.57	1,291.05	226.76	33,038.84	9,062.11
Municipal power.....	213.43			3,946.80	225.00
Street lighting.....	1,214.31	1,035.00	384.00	3,333.42	1,736.00
Merchandise.....					1.11
Miscellaneous.....	291.65	107.08	28.59	763.94	625.81
Total earnings.....	9,770.78	7,147.48	2,996.55	66,074.18	27,210.47
EXPENSES					
Power purchased.....	6,082.02	3,953.45	2,007.88	44,321.92	17,303.79
Substation operation.....				3,172.95	
Substation maintenance.....					
Distribution system, operation and maintenance.....	784.12	236.61	52.25	1,810.68	1,178.33
Line transformer maintenance.....		383.32		35.06	13.94
Meter maintenance.....	115.72	129.20	63.14	513.15	171.35
Consumers' premises expenses.....	157.88			215.42	7.74
Street lighting, operation and main- tenance.....	266.01	78.63	39.43	726.82	239.24
Promotion of business.....				176.23	
Billing and collecting.....	308.55	205.95	154.01	1,453.10	609.10
General office, salaries and expenses...	238.97	85.03	50.79	1,321.27	972.60
Undistributed expenses.....	26.69	23.80		172.17	145.21
Truck operation and maintenance.....				405.10	130.26
Interest.....		363.58	56.80		297.38
Sinking fund and principal payments on debentures.....		1,074.97	105.83		455.81
Depreciation.....	801.00	451.00	273.00	3,024.10	1,239.00
Other reserves.....	40.25		50.00		
Total operating costs and fixed charges.....	8,821.21	6,985.54	2,853.13	57,347.97	22,763.75
Net surplus.....	949.57	161.94	143.42	8,726.21	4,446.72
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	229	140	69	1,123	446
Commercial light service.....	80	44	21	160	140
Power service.....	7	3	1	17	10
Total.....	316	187	91	1,300	596

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Tillson- burg 3,702	Toronto 645,462	Toronto Twp.	Trafalgar Twp. Area No. 1	Trafalgar Twp. Area No. 2	Wallaceburg 4,660	Wardsville 249
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
16,253.69	4,396,576.80	65,185.09	13,199.23	5,844.20	18,329.17	1,093.87
14,600.61	2,816,925.68	14,547.37	629.32	.....	11,074.08	1,308.25
9,909.34	3,761,549.01	10,442.96	634.35	.....	50,981.10	.....
1,530.47	1,162,616.29	.....	.....	.....	1,665.94	.....
4,663.89	511,912.28	4,984.18	.....	.....	4,194.00	720.00
76.77	.....	.....	.....	.....	1,345.95	.....
592.32	265,255.76	1,321.74	308.16	160.59	3,189.36	29.01
47,627.09	12,914,835.82	96,481.34	14,771.06	6,004.79	90,779.60	3,151.13
28,892.46	6,917,378.68	56,086.08	9,596.51	2,982.06	59,821.27	1,543.48
930.17	198,649.18	.....	.....	.....	108.80	.....
.....	244,983.03	.....	.....	.....	.....	.....
2,494.79	300,344.17	4,534.08	2,446.05	306.78	3,095.60	209.15
46.15	28,275.08	1,085.64	.....	.....	65.75	.....
367.45	109,175.24	789.23	38.10	98.07	493.09	36.35
70.34	213,865.31	1,535.28	.....	.....	310.00	30.46
851.77	119,184.17	732.54	.....	.....	465.07	43.06
96.36	157,636.73	.....	.....	.....	190.25	.....
1,113.43	431,473.16	3,443.04	.....	.....	2,689.36	.....
3,105.60	345,213.60	5,101.88	1,555.25	731.52	2,906.84	155.38
105.39	*237,914.85	311.98	151.08	.....	995.23	5.52
527.56	.....	1,559.55	515.53	.....	915.36	.....
303.70	1,123,686.19	2,579.72	523.10	522.43	2,079.15	176.28
1,231.59	1,381,530.24	5,353.62	1,150.49	.....	3,437.94	521.19
3,693.00	995,353.69	10,256.00	1,317.00	399.00	5,396.00	268.00
150.00	.....	.....	.....	.....	.....	.....
43,979.76	12,804,663.32	93,368.64	17,293.11	5,039.86	82,969.71	2,988.87
3,647.33	110,172.50	3,112.70	.....	964.93	7,809.89	162.26
.....	.....	.....	2,522.05	.....	.....	.....
1,026	159,179	2,164	346	158	1,089	50
226	25,041	203	2	.....	244	26
31	5,130	27	9	.....	32	.....
1,283	189,350	2,394	357	158	1,365	76

*Includes \$90,000.00 provision for possible York Twp. profit.

STATEMENT
Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Water- down 875	Waterford	Waterloo	Watford	Welland
Population.....		1,250	8,266	941	10,540
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,180.34	5,803.89	60,290.09	6,534.84	51,114.63
Commercial light service.....	1,711.88	2,305.24	24,173.09	2,929.90	32,008.80
Commercial power service.....	1,182.22	3,993.76	30,772.22	3,536.10	87,182.23
Municipal power.....	147.90	193.28	3,474.71	352.04	1,567.45
Street lighting.....	886.00	1,488.00	7,667.41	1,344.96	11,000.25
Merchandise.....			288.25	15.74	979.21
Miscellaneous.....	100.76	267.97	1,923.57	453.04	10,511.11
Total earnings.....	9,209.10	14,052.14	128,589.34	15,166.62	194,363.68
EXPENSES					
Power purchased.....	5,566.54	10,366.21	81,351.52	10,079.87	106,060.95
Substation operation.....			3,277.37		5,101.42
Substation maintenance.....			1,173.63		96.11
Distribution system, operation and maintenance.....	654.01	909.70	4,825.70	938.60	5,518.79
Line transformer maintenance.....		33.20	741.16	16.33	157.89
Meter maintenance.....	63.42	97.37	922.17	49.48	3,718.05
Consumers' premises expenses.....		48.80	2,752.85		937.06
Street lighting, operation and main- tenance.....	195.35	285.98	1,433.56	45.93	791.48
Promotion of business.....			333.55	192.35	419.27
Billing and collecting.....	505.21	532.55	3,156.44	511.80	3,620.82
General office, salaries and expenses...	152.93	406.89	3,431.31	677.79	9,566.72
Undistributed expenses.....	11.00	14.97	327.39		1,268.16
Truck operation and maintenance.....			930.11	182.02	1,576.84
Interest.....			1,943.19		13,110.63
Sinking fund and principal payments on debentures.....			5,020.86		9,149.69
Depreciation.....	874.00	1,100.00	9,873.00	911.00	13,741.53
Other reserves.....			150.00		
Total operating costs and fixed charges.....	8,022.46	13,795.67	121,643.81	13,605.17	174,835.41
Net surplus.....	1,186.64	256.47	6,945.53	1,561.45	19,528.27
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	232	325	1,933	271	2,454
Commercial light service.....	35	72	253	74	429
Power service.....	6	11	74	5	80
Total.....	273	408	2,260	350	2,963

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Wellesley P.V.	West Lorne 769	Weston 5,028	Wheatley 724	Windsor 101,435	Woodbridge 763	Woodstock 11,040
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,525.99	2,987.59	43,655.64	4,348.48	728,298.53	6,384.73	70,367.03
1,466.52	1,568.72	9,620.43	2,961.65	336,424.55	1,750.65	38,494.15
1,413.22	1,849.31	49,121.44	1,448.36	493,126.71	4,527.57	81,351.73
.....	.....	488.79	432.50	20,997.28	424.35	3,052.48
660.00	1,020.00	7,265.67	1,472.00	102,535.46	989.90	8,391.48
.....
23.87	7.71	615.26	163.14	2,013.65	52.71	3,960.84
6,089.60	7,433.33	110,767.23	10,826.13	1,683,396.18	14,129.91	205,617.71
.....
3,742.69	4,361.25	82,600.21	5,725.64	913,296.17	11,042.56	147,621.55
.....	.....	168.02	.....	34,243.62	.....	2,549.54
.....	.....	.....	.....	9,513.39	.....	53.00
81.04	303.51	4,026.14	482.33	38,190.72	377.90	5,204.73
.....	.....	75.20	.....	10,595.04	.....	45.01
.....	76.19	438.14	105.22	29,109.35	295.48	2,926.82
16.19	66.02	1,780.01	128.79	58,638.23	53.40	1,274.52
40.08	68.90	774.41	255.40	34,601.40	69.32	1,963.14
.....	.....	.....	100.00	29,110.53	.....	854.54
247.75	653.49	889.21	509.62	56,343.60	.....	3,315.21
250.14	189.28	2,920.53	101.29	39,665.00	660.58	6,003.56
12.39	2.74	340.22	55.72	6,164.32	.....	1,423.60
.....	.....	309.09	.....	.....	.....	929.73
.....	.....	1,536.00	363.45	53,354.69	281.80	2,001.54
.....	.....	3,721.33	747.81	131,983.29	361.19	791.52
369.00	708.00	5,662.00	690.00	108,918.00	937.00	13,936.00
.....
4,759.28	6,429.38	105,240.51	9,265.27	1,553,727.35	14,079.32	190,894.01
.....
1,330.32	1,003.95	5,526.72	1,560.86	129,668.83	50.59	14,723.70
.....
.....
128	199	1,306	207	24,023	258	3,052
47	53	184	70	3,225	49	465
5	10	30	4	467	7	92
180	262	1,520	281	27,715	314	3,609

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Concluded

Municipality.....	Wyoming	*York Twp.	Zurich	NIAGARA SYSTEM SUMMARY
Population.....	516		P.V.	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,399.26	663,752.91	2,840.90	9,958,902.45
Commercial light service.....	1,445.79	82,747.18	2,271.57	5,199,838.55
Commercial power service.....	393.46	97,221.51		9,064,883.88
Municipal power.....		9,408.64		1,559,043.57
Street lighting.....	780.00	50,951.76	693.00	1,373,677.08
Merchandise.....				15,502.43
Miscellaneous.....	70.37	16,741.10	101.15	483,377.00
Total earnings.....	5,088.88	920,823.10	5,906.62	27,655,224.96
EXPENSES				
Power purchased.....	3,200.79		3,907.83	16,278,034.19
Substation operation.....				404,354.82
Substation maintenance.....				286,744.10
Distribution system, operation and maintenance.....	77.85		309.13	701,103.11
Line transformer maintenance.....				66,975.08
Meter maintenance.....		†834,971.17	1.35	274,541.32
Consumers' premises expenses.....				381,515.89
Street lighting, operation and maintenance.....	94.56		57.78	271,390.58
Promotion of business.....				261,485.15
Billing and collecting.....	197.50		174.15	803,551.93
General office, salaries and expenses...	38.07		66.47	743,857.35
Undistributed expenses.....	9.49		11.69	364,729.53
Truck operation and maintenance.....				54,307.92
Interest.....		18,832.85	173.61	1,581,099.39
Sinking fund and principal payments on debentures.....		26,985.02	216.39	2,231,159.43
Depreciation.....	469.00	24,523.00	444.00	1,901,998.51
Other reserves.....				50,244.48
Total operating costs and fixed charges.....	4,087.26	905,312.04	5,362.40	26,657,092.88
Net surplus.....	1,001.62	15,511.06	544.22	998,132.08
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	139	21,043	123	384,603
Commercial light service.....	47	1,138	47	57,364
Power service.....	3	167		10,550
Total.....	189	22,348	170	452,517

*For year ended Dec. 31, 1936. Included in Toronto figures. Not added in Summary.

†Toronto Operating Costs.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

GEORGIAN BAY
SYSTEM

Alliston 1,320	Arthur 1,052	Barrie 8,126	Beaverton 976	Beeton 605	Bradford 989	Brechin * P.V.	Canning- ton 761
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,502.26	5,365.18	53,213.32	6,461.14	3,396.24	6,549.61	1,020.45	5,161.71
5,842.51	4,619.18	33,130.63	2,448.87	2,312.20	3,691.24	1,075.55	2,551.94
2,277.00	1,459.67	19,229.70	1,272.77	1,705.52	3,069.00	899.16	659.31
849.26	714.23	989.02	.....	.....	338.07	.....	.....
2,030.03	1,476.78	6,151.00	1,317.02	1,264.00	1,072.00	462.00	1,110.50
.....	.....	95.90	.....	.....	.....	.....	.....
62.93	10.38	707.90	846.67	32.34	78.08	3.86	77.80
20,563.99	13,645.42	113,517.47	12,346.47	8,710.30	14,798.00	3,461.02	9,561.26
12,716.18	8,715.49	81,373.83	7,933.88	6,154.17	9,141.84	2,503.68	6,004.91
.....	.....	552.84	.....	.....	.....	.....	.....
675.46	743.43	7,246.79	675.03	235.14	302.80	354.44	469.62
.....	.....	453.10	.....	.....	.....	.....	.....
128.66	93.10	358.91	32.07	21.70	122.49	.....	117.93
296.62	.....	1,152.51	64.46	.....	.....	.....	74.90
282.10	170.14	658.37	244.54	163.58	158.28	117.63	158.22
.....	.....	470.35	.....	.....	.....	.....	4.51
717.80	.....	4,277.38	449.29	188.04	633.45	.....	512.12
395.99	331.78	2,725.19	374.93	149.84	204.28	116.44	338.33
16.19	16.72	358.52	4.84	.....	68.90	.....	.....
.....	.....	874.43	.....	.....	.....	.....	.....
1,371.83	908.11	896.69	238.23	432.42	949.59	194.63	329.64
1,778.20	906.26	1,581.86	662.30	543.35	1,060.96	121.26	757.58
1,449.00	1,053.00	8,042.88	1,278.00	667.00	995.00	158.00	779.00
57.52	.....	27.93	25.00	.....	.....	.....	50.00
19,885.55	12,938.03	111,051.58	11,982.57	8,555.24	13,637.59	3,566.08	9,596.76
678.44	707.39	2,465.89	363.90	155.06	1,160.41	.....	.....
.....	.....	.....	.....	.....	.....	105.06	35.50
332	207	2,058	329	122	231	41	250
105	86	427	67	38	65	26	70
13	4	47	8	4	10	3	9
450	297	2,532	404	164	306	70	329

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY
SYSTEM—Continued

Municipality.....	Chatsworth 321	Chesley	Coldwater	Collingwood 5,498	Cookstown P.V.
Population.....		1,766	589		
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,907.08	8,597.40	2,912.71	26,253.86	2,172.60
Commercial light service.....	1,628.54	4,651.64	1,742.73	10,895.43	1,272.08
Commercial power service.....		6,751.70	6,326.14	13,255.32	761.49
Municipal power.....		826.11		1,216.63	
Street lighting.....	615.00	1,572.96	884.00	3,792.25	840.00
Merchandise.....		48.77		12.38	
Miscellaneous.....	18.75	382.14	196.21	880.39	94.33
Total earnings.....	4,169.37	22,830.72	12,061.79	56,306.26	5,140.50
EXPENSES					
Power purchased.....	2,585.84	16,998.33	10,752.42	44,599.57	2,854.55
Substation operation.....				189.24	
Substation maintenance.....					
Distribution system, operation and maintenance.....	123.92	312.97	442.02	1,343.69	162.61
Line transformer maintenance.....		139.66		78.53	
Meter maintenance.....		85.60	58.95	638.55	34.99
Consumers' premises expenses.....		165.75	66.73	118.73	
Street lighting, operation and maintenance.....	26.08	298.64	133.41	590.17	168.56
Promotion of business.....		231.32			
Billing and collecting.....		469.31	333.27	2,405.40	227.47
General office, salaries and expenses.....	246.67	695.77	125.07	961.26	43.03
Undistributed expenses.....		49.00		121.87	27.20
Truck operation and maintenance.....		28.00		237.56	
Interest.....	21.37	30.49	166.88	5.98	364.11
Sinking fund and principal payments on debentures.....	102.49	425.84	331.11		363.90
Depreciation.....	290.00	1,408.00	622.00	4,375.00	564.00
Other reserves.....			15.43	125.00	
Total operating costs and fixed charges.....	3,396.37	21,338.68	13,047.29	55,790.55	4,810.42
Net surplus.....	773.00	1,492.04		515.71	330.08
Net loss.....			985.50		
NUMBER OF CONSUMERS					
Domestic service.....	85	426	143	1,310	102
Commercial light service.....	34	99	54	200	32
Power service.....		20	3	52	3
Total.....	119	545	200	1,562	137

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Creemore 631	Dundalk 652	Durham 1,816	Elmvale P.V.	Elmwood P.V.	Flesherton 446	Grand Valley 582	Graven- hurst 1,996
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,203.49	2,996.24	6,580.18	2,875.55	1,329.70	2,441.82	3,368.91	9,631.59
1,948.02	2,771.10	4,758.40	1,720.57	696.71	1,924.89	1,993.31	7,358.44
758.52	2,597.99	3,350.91	2,632.98	1,255.75	137.72	1,485.03	10,040.89
.....	.....	629.48	143.37	.....	.....	.....	704.55
720.00	1,230.00	1,839.96	696.00	529.00	608.00	988.00	2,092.98
.....	.....	.....	.....	.....	.....	.....	1,299.46
88.26	144.36	391.03	147.59	95.87	58.54	203.13	453.99
6,718.29	9,739.69	17,549.96	8,216.06	3,907.03	5,170.97	8,038.38	31,581.90
.....
5,070.18	6,064.97	12,459.09	5,780.54	2,318.34	3,564.09	5,697.56	18,566.88
.....
141.38	878.77	814.48	599.05	43.51	64.76	183.31	2,397.46
.....	.....	169.17	.....	.....	.....	.....	440.89
64.25	23.45	81.70	54.87	.....	68.00	24.95	305.47
32.88	7.09	48.71	24.77	.....	.....	.....	86.89
.....
68.06	147.02	259.75	121.09	11.86	29.55	68.64	986.66
.....	.....	57.38	.....	.....	.....	.....	.....
194.04	.....	617.59	230.04	.....	.....	.....	1,122.32
43.51	807.96	784.72	175.08	174.77	362.74	632.28	393.09
.....	.....	57.89	.....	.....	.....	.....	691.74
.....	.....	322.82	.....	.....	.....	.....	367.08
1.69	0.32	.....	115.46	40.78	357.44	.....	500.00
.....	.....	.....	339.80	239.50	313.51	.....	178.30
452.00	509.00	1,325.00	731.00	277.00	380.00	625.00	1,966.00
.....
6,067.99	8,438.58	16,998.30	8,171.70	3,105.76	5,140.09	7,231.74	28,002.78
650.30	1,301.11	551.66	44.36	801.27	30.88	806.64	3,579.12
.....
.....
126	168	442	170	63	145	159	510
55	73	107	58	23	53	52	129
2	5	12	8	1	1	6	16
183	246	561	236	87	199	217	655

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY
SYSTEM—Continued

Municipality.....	Hanover	Holstein	Huntsville	Kincardine	Kirkfield
Population.....	3,061	P.V.	2,700	2,468	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	19,287.56	969.26	12,009.12	15,184.34	775.15
Commercial light service.....	7,294.28	565.10	9,274.75	8,289.83	1,194.57
Commercial power service.....	19,176.30	125.41	12,398.57	10,255.28	
Municipal power.....	324.15		1,400.00	1,361.66	
Street lighting.....	2,952.54	350.00	2,473.05	4,432.50	480.00
Merchandise.....					
Miscellaneous.....	1,381.42	76.26	1,141.41	58.36	
Total earnings.....	50,416.25	2,086.03	38,696.90	39,581.97	2,449.72
EXPENSES					
Power purchased.....	32,533.69	1,434.14	25,480.10	26,383.51	1,332.17
Substation operation.....					
Substation maintenance.....				479.65	
Distribution system, operation and maintenance.....	2,611.84	105.97	2,192.04	1,615.28	188.34
Line transformer maintenance.....	68.33		30.12		
Meter maintenance.....	291.38	22.65	325.63	227.32	
Consumers' premises expenses.....	229.58		544.57	155.07	
Street lighting, operation and maintenance.....	282.53	7.60	858.01	523.09	45.88
Promotion of business.....			446.14	132.51	
Billing and collecting.....	1,158.24		1,218.43	715.49	
General office, salaries and expenses.....	1,011.70	169.95	1,148.33	638.24	97.08
Undistributed expenses.....	246.98		474.17	184.66	
Truck operation and maintenance.....	142.25		217.24	211.56	
Interest.....	959.53		140.50	1,205.88	163.32
Sinking fund and principal payments on debentures.....	6,669.14		219.61	3,976.10	414.48
Depreciation.....	3,783.00	128.40	1,412.00	2,491.00	239.00
Other reserves.....			800.00		
Total operating costs and fixed charges.....	49,988.19	1,868.71	35,506.89	38,939.36	2,480.27
Net surplus.....	428.06	217.32	3,190.01	642.61	
Net loss.....					30.55
NUMBER OF CONSUMERS					
Domestic service.....	740	52	624	660	29
Commercial light service.....	138	19	135	122	19
Power service.....	24	1	12	19	
Total.....	902	72	771	801	48

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Lucknow 1,068	Markdale 802	Meaford 2,719	Midland 6,690	Mildmay 750	Mount Forest 1,815	Neustadt 451	Orange- ville 2,479
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,497.25	3,468.41	12,212.46	34,945.51	2,942.72	8,578.31	1,952.52	15,451.31
3,648.11	2,667.17	7,503.21	15,596.03	1,925.33	6,826.62	988.33	9,747.88
3,397.74	1,051.43	7,435.64	48,868.61	1,064.47	3,443.80	194.79	5,400.06
458.52	30.00	844.94	2,778.36	.....	938.73	.....	1,159.07
1,691.90	900.00	2,975.00	6,376.00	731.00	2,093.67	780.00	3,016.04
.....	.....	.....	43.84	.....	.....	.....	76.51
186.87	113.22	939.63	1,952.69	148.85	255.73	106.34	492.98
15,880.39	8,230.23	31,910.88	110,561.04	6,812.37	22,136.86	4,021.98	35,343.85
.....
11,414.37	6,136.80	20,838.81	77,802.15	3,975.44	18,018.71	1,784.72	25,798.37
.....	.....	.....	1,964.64	.....	.....	.....	.....
.....	.....	.....	583.49	.....	.....	.....	.....
284.47	158.92	1,678.19	2,919.33	109.42	770.13	218.20	1,164.38
.....	.....	18.56	242.69	.....	.....	.....	164.44
56.60	70.77	237.57	725.05	13.00	161.90	.....	204.30
.....	123.26	82.41	228.27	107.46	.....	.....	125.34
134.59	77.64	507.25	656.73	95.66	367.12	37.46	417.99
.....	.....	1.19	372.54	.....	.....	.....	28.16
.....	.....	802.02	3,015.88	.....	689.87	.....	1,205.18
1,210.00	486.87	669.66	2,239.90	318.20	109.83	244.29	390.80
.....	.....	195.91	837.62	.....	38.20	.....	63.37
.....	.....	153.60	286.57	.....	186.32	.....	.....
440.60	266.83	1,541.99	1,081.00	548.54	523.04	190.78	155.01
1,203.80	387.01	3,739.08	4,646.36	496.24	786.69	1,214.99	104.40
873.00	650.00	1,588.00	11,027.36	251.00	1,540.00	652.00	2,300.00
.....
15,617.43	8,358.10	32,054.24	108,629.58	5,914.96	23,191.81	4,342.44	32,121.74
262.96	.....	.....	1,931.46	897.41	.....	.....	3,222.11
.....	127.87	143.36	.....	.....	1,054.95	320.46	.....
.....
266	210	669	1,593	153	473	92	677
78	75	145	217	47	151	26	159
6	10	18	55	3	11	1	25
350	295	832	1,865	203	635	119	861

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality.....	Owen Sound 13,100	Paisley 792	Penetang- uishene 4,061	Port Elgin 1,267	Port McNicoll 933
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	60,404.54	3,717.40	12,000.68	8,015.23	3,613.96
Commercial light service.....	40,437.30	2,821.46	7,029.69	4,991.92	799.61
Commercial power service.....	44,017.50	993.15	14,480.75	3,003.32	.....
Municipal power.....	.....	.....	2,582.74	785.82	.....
Street lighting.....	13,083.55	1,260.00	2,276.00	2,389.32	908.00
Merchandise.....	408.11	.....	.....	.....	.....
Miscellaneous.....	1,483.29	191.97	193.44	500.98	3.72
Total earnings.....	159,834.29	8,983.98	38,563.30	19,686.59	5,325.29
EXPENSES					
Power purchased.....	115,468.52	5,880.86	24,104.35	12,534.70	2,768.58
Substation operation.....	.....	.....	.....	.....	.....
Substation maintenance.....	2,470.63	.....	97.68	.....	.....
Distribution system, operation and maintenance.....	4,734.59	336.47	2,264.29	945.18	385.66
Line transformer maintenance.....	1,655.22	.....	50.20	.....	.....
Meter maintenance.....	1,672.78	23.90	257.95	120.28	86.85
Consumers' premises expenses.....	128.37	29.07	203.61	243.17	.....
Street lighting, operation and main- tenance.....	2,387.77	90.96	788.14	263.84	149.86
Promotion of business.....	198.39	.....	.....	.....	.....
Billing and collecting.....	6,194.56	.....	1,025.84	654.90	346.89
General office, salaries and expenses...	5,671.32	501.76	596.95	216.49	223.66
Undistributed expenses.....	1,751.12	.....	168.53	34.34	65.50
Truck operation and maintenance....	1,208.01	.....	233.66	147.14	.....
Interest.....	.....	418.48	501.23	1,673.86	57.17
Sinking fund and principal payments on debentures.....	.....	920.39	1,996.37	1,702.20	152.06
Depreciation.....	7,821.00	584.00	3,121.00	1,020.00	460.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	151,362.28	8,785.89	35,409.80	19,556.10	4,696.23
Net surplus.....	8,472.01	198.09	3,153.50	130.49	629.06
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domestic service.....	3,301	187	609	432	210
Commercial light service.....	559	53	108	101	25
Power service.....	105	4	28	8	.....
Total.....	3,965	244	745	541	235

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Port Perry 1,124	Priceville P.V.	Ripley 442	Rosseau 315	Shelburne 1,114	South- ampton 1,255	Stayner 999	Sunder- land P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,474.32	693.43	3,268.67	2,869.27	5,776.33	8,176.98	4,632.97	2,545.12
3,066.39	301.15	1,577.42	995.67	3,887.41	3,367.26	3,260.10	1,833.00
2,730.27	64.87			1,881.93	2,793.50	1,900.26	211.63
324.93				648.97	1,188.17		
1,470.00	560.00	1,070.00	1,160.25	1,056.00	2,319.96	1,320.00	720.00
563.07	4.39	6.91	46.64	299.45	166.18	252.76	26.55
14,628.98	1,623.84	5,923.00	5,071.83	13,550.09	18,012.05	11,366.09	5,336.30
10,886.75	715.92	3,724.41	3,184.44	9,253.19	9,984.97	7,883.53	3,756.47
918.16	48.72	135.87	263.41	493.40	895.06	533.92	184.83
205.93		74.50	48.50	73.50	201.58	67.84	53.28
16.10				32.02	180.73	22.72	
168.96	26.74	56.09	103.84	87.36	221.34	215.20	101.84
687.35			190.67	467.06	689.78	489.37	238.58
370.60	77.48	549.08	76.65	199.45	456.70	300.25	117.57
					30.48	23.42	
746.32	108.75	546.06	719.42	62.06	158.15		
					954.05	18.72	126.02
943.70	414.35	482.00	420.90	356.34	1,337.42		274.34
947.00	205.00	494.00	267.00	1,088.00	913.00	1,016.00	332.00
						15.00	
15,890.87	1,596.96	6,062.01	5,274.83	12,112.38	16,023.26	10,585.97	5,184.93
	26.88			1,437.71	1,988.79	780.12	151.37
1,261.89		139.01	203.00				
311	35	126	61	263	448	264	115
76	10	44	20	81	82	88	45
11	1			14	12	10	2
398	46	170	81	358	542	362	162

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY
SYSTEM—Concluded

Municipality.....	Tara	Teeswater	Thornton	Tottenham	Uxbridge
Population.....	471	837	P.V.	540	1,483
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,882.59	4,529.29	1,380.15	3,615.62	8,272.57
Commercial light service.....	1,609.30	2,564.45	572.51	2,186.30	4,200.50
Commercial power service.....	984.27	1,141.88	265.93	225.46	878.98
Municipal power.....		180.00		196.80	
Street lighting.....	1,332.00	1,293.16	880.00	980.00	1,720.00
Merchandise.....					
Miscellaneous.....	13.86	114.04	2.83	13.60	18.81
Total earnings.....	6,822.02	9,822.82	3,101.42	7,217.78	15,090.86
EXPENSES					
Power purchased.....	3,812.33	5,992.09	1,371.52	4,765.16	11,646.89
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	129.58	184.01	36.05	312.26	594.64
Line transformer maintenance.....		97.18			
Meter maintenance.....	239.93	68.20			53.31
Consumers' premises expenses.....					12.67
Street lighting, operation and maintenance.....	41.84	56.73	27.47	108.48	159.03
Promotion of business.....		45.00			
Billing and collecting.....					798.37
General office, salaries and expenses...	585.16	677.95	80.47	307.16	403.99
Undistributed expenses.....					21.75
Truck operation and maintenance.....					
Interest.....	129.06	550.74	119.47	334.06	
Sinking fund and principal payments on debentures.....	540.38	1,457.31	536.57	471.32	
Depreciation.....	621.00	805.00	364.00	466.00	768.00
Other reserves.....					
Total operating costs and fixed charges.....	6,099.28	9,934.21	2,535.55	6,764.44	14,458.65
Net surplus.....	722.74		565.87	453.34	632.21
Net loss.....		111.39			
NUMBER OF CONSUMERS					
Domestic service.....	139	208	60	135	392
Commercial light service.....	40	54	13	52	97
Power service.....	4	7	2	6	10
Total.....	183	269	75	193	499

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Victoria Harbor 1,043	Walkerton 2,350	Waubausene P.V.	Warton 1,766	Windermere 146	Wingham 2,115	Woodville 365	GEORGIAN BAY SYSTEM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,024.48	14,331.48	2,366.59	8,598.76	2,583.67	11,617.39	2,208.70	486,815.15
879.83	8,353.81	595.48	7,243.71	1,166.51	7,294.82	1,181.66	286,772.45
20.29	6,236.45	431.45	3,186.32	.....	9,794.97	525.82	288,507.67
116.72	623.44	94.05	1,576.06	.....	459.05	.....	24,482.90
663.00	2,707.00	464.00	2,362.35	390.00	3,360.66	626.00	106,914.43
.....	439.92	.....	.....	.....	1,080.47	.....	3,505.36
.....	.....	24.99	412.34	9.14	1,498.46	213.72	17,889.45
4,704.32	32,692.10	3,976.56	23,379.54	4,149.32	35,105.82	4,755.90	1,214,887.41
.....
2,557.90	20,591.95	3,292.07	13,761.41	1,910.46	17,535.92	2,893.32	825,067.03
.....	.....	.....	.....	.....	1,883.20	.....	4,037.08
.....	.....	.....	.....	.....	.....	.....	4,184.29
214.07	1,434.88	150.11	516.94	140.19	2,189.54	290.46	50,559.44
.....	105.02	.....	.....	.....	177.50	.....	3,890.61
.....	503.82	30.93	256.28	.....	292.40	58.02	9,041.59
.....	79.58	13.76	.....	.....	.....	28.77	4,726.57
126.06	491.70	69.68	263.01	30.91	547.55	73.59	15,531.89
.....	.....	.....	.....	.....	.....	.....	1,987.49
.....	1,022.72	.....	885.74	.....	625.08	238.48	35,738.02
452.85	1,609.10	379.35	521.08	231.05	1,985.44	126.23	35,535.37
.....	107.15	.....	59.71	.....	178.71	.....	5,894.49
.....	141.27	.....	196.55	.....	440.26	.....	5,552.47
3.06	2,588.60	9.63	1,626.73	568.12	2,023.24	110.29	28,137.82
.....	2,431.68	.....	1,374.82	468.55	1,534.66	289.12	51,668.60
485.00	1,566.00	380.00	890.00	343.00	3,321.00	255.00	83,412.64
.....	.....	.....	.....	.....	.....	50.00	1,165.88
3,838.94	32,673.47	4,325.53	20,352.27	3,692.28	32,734.50	4,413.28	1,166,131.28
865.38	18.63	.....	3,027.27	457.04	2,371.32	342.62	48,756.13
.....	.....	348.97	.....	.....	.....	.....	.....
.....
192	587	172	390	52	551	112	23,009
21	136	23	116	12	146	32	5,218
2	17	4	16	.....	24	2	701
215	740	199	522	64	721	146	28,928

STATEMENT
Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO
SYSTEM

Municipality.....	Alexandria	Apple Hill	Athens	Bath	Belleville
Population.....	1,926	P.V.	669	318	14,509
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,415.81	1,313.90	3,204.97	1,481.71	78,466.57
Commercial light service.....	5,547.55	909.64	1,322.49	888.74	50,519.55
Commercial power service.....	2,499.92	320.76	909.87		38,791.99
Municipal power.....	809.16				4,459.74
Street lighting.....	1,936.00	478.50	1,055.00	714.00	10,665.46
Merchandise.....					
Miscellaneous.....	254.82	7.24	138.74		10,828.67
Total earnings.....	18,463.26	3,030.04	6,631.07	3,084.45	193,731.98
EXPENSES					
Power purchased.....	9,319.34	1,748.30	3,754.67	1,918.35	139,904.13
Substation operation.....					27.69
Substation maintenance.....					
Distribution system, operation and maintenance.....	730.15	52.63	192.08	91.71	2,750.23
Line transformer maintenance.....	15.20				237.95
Meter maintenance.....	159.07	8.50	5.61		1,448.99
Consumers' premises expenses.....	39.52				3,997.74
Street lighting, operation and maintenance.....	145.31	62.69	69.20	1.80	1,529.64
Promotion of business.....					142.77
Billing and collecting.....	873.70				3,969.59
General office, salaries and expenses...	372.57	231.96	236.74	111.40	7,813.64
Undistributed expenses.....	72.25				563.65
Truck operation and maintenance.....					
Interest.....	729.20	139.38	566.88	411.96	
Sinking fund and principal payments on debentures.....	2,762.34	383.72	616.19	266.46	
Depreciation.....	1,507.00	189.00	530.00	200.00	6,421.00
Other reserves.....			100.00		
Total operating costs and fixed charges.....	16,725.65	2,816.18	6,071.37	3,001.68	168,807.02
Net surplus.....	1,737.61	213.86	559.70	82.77	24,924.96
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	330	50	170	38	3,159
Commercial light service.....	112	22	49	18	719
Power service.....	14	2	1		96
Total.....	456	74	220	56	3,974

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Bloomfield 663	Bowman- ville 3,611	Brighton 1,420	Brockville 9,903	Cardinal 1,471	Carleton Place 4,275	Chester- ville 1,067	Cobden 637
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,122.87	27,388.72	8,739.86	47,633.58	6,513.04	18,701.91	5,153.14	2,369.39
1,557.88	9,790.57	4,041.09	24,901.86	2,049.59	9,784.30	3,587.23	2,621.54
837.47	51,512.75	2,377.49	33,134.14	633.08	26,953.94	2,333.61	297.77
.....	.....	.....	4,192.87	.....	1,502.12	.....	.....
660.00	3,122.66	2,191.92	8,584.50	932.00	4,806.00	1,179.40	908.00
.....	.....	.....	.....	.....	83.87	170.85	.....
31.48	2,759.82	314.23	6,201.75	154.44	1,817.19	458.16	24.27
.....
6,209.70	94,574.52	17,664.59	124,648.70	10,282.15	63,649.33	12,882.39	6,220.97
.....
4,277.17	65,144.28	8,190.44	83,801.27	6,380.66	41,512.12	7,127.85	3,575.39
.....	42.30	.....	5,160.00	.....	173.01	.....	.....
.....	.....	.....	423.88	.....	.....	.....	.....
88.71	1,563.54	1,577.61	2,433.50	998.26	1,292.05	934.03	116.79
.....	7.17	42.86	26.66	.....	124.09	.....	.....
4.23	753.37	136.71	1,906.60	49.51	870.42	15.30	29.65
.....	442.67	81.67	242.55	133.11	1,046.58	89.60	.....
151.45	347.70	148.57	1,266.11	173.85	449.07	230.19	126.07
.....	463.87	20.10	378.69	.....	81.23	.....	.....
.....	2,087.27	615.32	2,253.31	.....	1,534.20	390.33	291.16
263.24	2,058.38	1,596.59	5,168.90	579.94	3,749.77	419.44	94.60
2.00	890.24	335.26	1,211.46	14.04	193.40	.....	.....
.....	.....	336.45	642.74	.....	520.10	.....	.....
350.37	1,670.64	845.89	.....	567.72	2,130.58	114.98	414.83
509.81	2,780.33	1,025.50	.....	607.92	3,042.17	236.49	485.17
573.00	2,346.00	673.00	9,485.00	456.00	2,331.00	604.00	122.00
.....
6,219.98	80,597.76	15,625.97	114,400.67	9,961.01	59,049.79	10,162.21	5,255.66
.....	13,976.76	2,038.62	10,248.03	321.14	4,599.54	2,720.18	965.31
10.28	.....	.....	.....	.....	.....	.....	.....
.....
164	1,123	493	2,752	347	987	237	104
31	157	97	449	61	195	71	47
6	29	11	72	3	18	4	1
201	1,309	601	3,273	411	1,200	312	152

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO
SYSTEM—Continued

Municipality.....	Cobourg	Colborne	Deseronto	Finch	Hastings
Population.....	5,063	954	1,287	392	811
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	28,748.06	4,897.97	5,762.67	2,064.42	4,165.09
Commercial light service.....	18,295.68	3,099.08	2,189.38	1,687.04	2,013.42
Commercial power service.....	23,806.21	533.25	1,227.67	294.21	250.87
Municipal power.....	2,735.08	214.30	686.20		
Street lighting.....	5,709.52	1,452.00	1,320.00	456.00	1,221.40
Merchandise.....					
Miscellaneous.....	2,435.94	333.05	157.43	147.62	323.67
Total earnings.....	81,730.49	10,529.65	11,343.35	4,649.29	7,974.45
EXPENSES					
Power purchased.....	48,285.32	4,728.04	5,732.96	2,647.07	3,520.74
Substation operation.....	76.90				
Substation maintenance.....					
Distribution system, operation and maintenance.....	4,120.73	1,150.74	1,263.01	178.94	628.69
Line transformer maintenance.....	530.68	4.90	4.00		17.50
Meter maintenance.....	1,083.57	97.02	66.09	11.70	27.89
Consumers' premises expenses.....	1,012.96	258.97	166.40	14.08	
Street lighting, operation and maintenance.....	985.77	63.62	634.82	77.23	119.42
Promotion of business.....	1,184.94		84.64		
Billing and collecting.....	2,800.57		332.97		302.05
General office, salaries and expenses.....	4,117.77	1,317.80	783.82	296.13	120.56
Undistributed expenses.....	1,274.64	39.13	78.34		25.21
Truck operation and maintenance.....	83.86	274.00	296.26		
Interest.....	3,534.46	678.25	211.47	288.79	970.13
Sinking fund and principal payments on debentures.....	3,962.14	485.66	587.39	321.50	787.14
Depreciation.....	3,223.00	327.00	434.00	298.00	544.00
Other reserves.....					
Total operating costs and fixed charges.....	76,277.31	9,425.13	10,676.17	4,133.44	7,063.33
Net surplus.....	5,453.18	1,104.52	667.18	515.85	911.12
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	1,245	246	293	91	195
Commercial light service.....	294	75	67	35	51
Power service.....	50	5	7	1	4
Total.....	1,589	326	367	127	250

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Havelock	Kemptville	Kingston	Lakefield	Lanark	Lancaster	Lindsay
1,208	1,178	23,513	1,337	623	608	7,116
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,061.67	7,306.20	128,283.98	6,105.64	3,227.51	1,941.58	38,663.58
2,479.56	4,932.15	81,408.83	4,127.01	1,402.66	1,671.50	26,091.06
2,409.10	5,184.57	98,584.59	4,043.25			26,672.34
		8,684.23				2,868.75
1,533.00	1,729.75	15,977.70	1,736.62	570.00	825.00	6,423.20
	135.75					
474.93	1,020.05	3,749.22	484.15	121.75	12.84	4,342.00
11,958.26	20,308.47	336,688.55	16,496.67	5,322.02	4,450.92	105,060.93
6,178.40	11,063.29	215,345.60	9,561.88	3,129.48	2,186.77	66,627.03
		5,198.68				
		3,002.54				
920.87	1,323.03	13,829.19	1,069.40	128.99	128.37	2,937.28
25.59	127.89	1,154.12	28.58			627.28
16.19	274.09	4,808.15	80.05	16.95	13.35	1,309.35
	75.04	2,088.89				1,184.84
147.80	279.86	3,235.68	244.86	46.08	50.73	2,032.84
		361.60				
	1,059.37	5,349.35	575.29			3,100.62
397.40	457.66	12,475.68	713.76	406.27	299.88	6,693.02
4.16	126.61	9,011.28	100.05			1,262.15
255.12	369.47	1,745.00				
626.74	978.15	3,309.31	1,503.05	97.87	55.06	4,477.60
2,241.63	803.32	4,180.50	1,062.31	586.34	897.69	5,808.67
968.00	1,115.00	23,793.00	1,303.00	318.00	325.00	4,320.00
		2,500.00				
11,781.90	18,052.78	311,388.57	16,242.23	4,729.98	3,956.85	100,380.68
176.36	2,255.69	25,299.98	254.44	592.04	494.07	4,680.25
280	340	6,065	316	176	87	1,938
64	86	911	70	36	35	333
3	6	143	6			74
347	432	7,119	392	212	122	2,345

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO
SYSTEM—Continued

Municipality.....	Madoc	Marmora	Martin- town P.V.	Maxville	Napanee
Population.....	1,253	948		741	3,061
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,662.12	3,624.32	887.29	3,699.61	23,278.78
Commercial light service.....	3,446.88	2,017.10	981.31	2,787.64	14,092.20
Commercial power service.....	1,250.03	353.40			10,762.14
Municipal power.....					383.67
Street lighting.....	1,500.00	1,361.00	195.00	1,175.25	4,198.77
Merchandise.....					
Miscellaneous.....	71.28	42.08	20.57	62.36	3,710.33
Total earnings.....	10,930.31	7,397.90	2,084.17	7,724.86	56,425.89
EXPENSES					
Power purchased.....	6,661.42	3,878.27	1,259.38	4,098.92	31,343.69
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,394.28	335.52	32.37	181.99	2,791.90
Line transformer maintenance.....	14.56				23.41
Meter maintenance.....	56.38	29.20	6.90	27.75	577.21
Consumers' premises expenses.....		43.16		53.99	544.92
Street lighting, operation and main- tenance.....	229.20	46.62	29.28	192.25	326.82
Promotion of business.....					249.94
Billing and collecting.....					1,803.33
General office, salaries and expenses...	1,154.58	580.64	150.95	321.24	4,435.41
Undistributed expenses.....	9.25	7.75			1,711.28
Truck operation and maintenance.....					
Interest.....		343.14		258.31	932.78
Sinking fund and principal payments on debentures.....		927.36		1,080.76	2,871.40
Depreciation.....	451.00	597.00	158.00	549.00	1,739.00
Other reserves.....				100.00	
Total operating costs and fixed charges.....	9,970.67	6,788.66	1,636.88	6,864.21	49,351.09
Net surplus.....	959.64	609.24	447.29	860.65	7,074.80
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	278	210	41	145	807
Commercial light service.....	88	47	23	47	194
Power service.....	6	3			33
Total.....	372	260	64	192	1,034

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Newcastle	Norwood	Omeme	Oshawa	Ottawa	Perth	Peterborough
675	753	579	24,692	141,903	4,184	23,072
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,951.52	4,455.06	2,652.68	168,007.14	495,646.48	23,768.94	139,315.14
1,918.50	2,301.50	1,659.53	66,426.67	186,663.94	14,592.83	75,892.10
1,779.62	697.11	2,471.01	250,287.97	55,706.98	13,763.89	102,840.01
.....	.....	.....	8,736.87	21,523.59	1,704.91	6,535.61
660.00	1,566.00	1,002.00	11,935.37	77,334.92	2,440.92	22,193.20
.....	.....	.....	.....	.....	1,932.03	.....
60.85	638.04	61.22	9,084.78	4,891.54	3,231.62	2,463.38
9,370.49	9,657.71	7,846.44	514,478.80	841,767.45	61,435.14	349,239.44
4,805.09	3,213.99	4,621.14	419,514.33	406,265.11	38,265.43	223,118.16
.....	.....	.....	112.89	28,611.11	368.19	7,196.10
.....	.....	.....	.....	538.93	.....	872.08
184.86	538.65	601.42	6,447.30	22,139.59	2,002.96	5,580.76
65.75	15.84	.....	704.49	2,015.71	202.77	492.58
259.88	42.76	27.50	4,701.40	10,735.58	354.64	5,911.81
.....	62.29	.....	4,657.63	3,905.66	13.75	6,048.48
47.67	53.33	75.28	1,882.62	31,600.95	407.69	4,121.40
160.39	.....	.....	3,535.59	10,391.47	733.85	993.75
558.37	.....	.....	8,580.89	45,803.00	1,778.60	6,206.34
370.98	409.62	259.02	8,067.68	29,339.44	3,255.25	6,610.54
.....	18.20	2.54	3,965.50	15,428.38	671.11	4,787.91
.....	254.59	.....	.....	2,436.67	641.14	2,081.68
665.00	1,457.92	86.41	9,441.64	30,335.74	3,456.07	27,746.00
434.71	1,295.55	959.83	13,320.12	17,551.21	1,800.64	14,263.54
695.00	1,139.00	669.00	11,427.00	84,623.00	3,800.00	17,792.00
.....	.....	.....	.....	778.33	300.00	500.00
8,247.70	8,501.74	7,302.14	496,359.08	742,499.88	58,052.09	334,323.13
1,122.79	1,155.97	544.30	18,119.72	99,267.57	3,383.05	14,916.31
.....
184	227	149	6,210	13,463	1,006	5,475
33	64	46	544	1,341	200	890
5	2	6	102	185	25	150
222	293	201	6,856	14,989	1,231	6,515

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality.....	Picton	Port Hope	Prescott	Richmond	Russell
Population.....	3,481	4,564	2,942	408	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	22,070.90	25,996.29	16,605.74	1,712.51	2,568.80
Commercial light service.....	14,876.86	12,752.36	9,309.35	1,550.52	1,458.81
Commercial power service.....	4,584.69	28,764.60	3,719.45		
Municipal power.....	1,728.84	1,530.98	1,301.15		
Street lighting.....	3,430.35	4,311.96	3,475.00	416.00	752.00
Merchandise.....	1,393.88				
Miscellaneous.....	1,950.02	941.25	249.03	7.37	119.35
Total earnings.....	50,035.54	74,297.44	34,659.72	3,686.40	4,898.96
EXPENSES					
Power purchased.....	34,182.22	47,522.94	23,053.75	2,077.52	2,344.23
Substation operation.....			1,264.90		
Substation maintenance.....			28.20		
Distribution system, operation and maintenance.....	2,830.72	1,580.72	2,722.99	48.99	88.41
Line transformer maintenance.....	264.25	40.19	1.60		
Meter maintenance.....	179.82	1,105.35	94.30	26.00	72.10
Consumers' premises expenses.....	799.54	1,454.37			40.30
Street lighting, operation and maintenance.....	697.85	916.90	781.55	28.37	59.71
Promotion of business.....	1,105.62		245.74		
Billing and collecting.....	1,300.70	1,841.98	1,124.53		
General office, salaries and expenses.....	2,342.90	3,425.82	2,098.43	187.43	381.51
Undistributed expenses.....	185.21	847.90	434.88		
Truck operation and maintenance.....	492.50	307.08			
Interest.....				284.09	335.81
Sinking fund and principal payments on debentures.....				282.62	516.83
Depreciation.....	2,211.00	2,345.00	3,058.00	238.00	312.00
Other reserves.....					
Total operating costs and fixed charges.....	46,592.33	61,388.25	34,908.87	3,173.02	4,150.90
Net surplus.....	3,443.21	12,909.19		513.38	748.06
Net loss.....			249.15		
NUMBER OF CONSUMERS					
Domestic service.....	983	1,317	716	59	120
Commercial light service.....	196	206	163	28	32
Power service.....	34	39	19		
Total.....	1,213	1,562	898	87	152

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1937

Smiths Falls 7,623	Stirling 935	Trenton 6,440	Tweed 1,311	Wark- worth P.V.	Wellington 872	Westport 720	Whitby 3,778
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
41,505.24	5,087.22	28,801.37	5,860.09	2,005.61	5,462.02	3,325.24	21,168.36
15,340.97	3,356.80	18,913.19	4,442.86	1,699.61	2,195.91	2,988.62	11,123.21
24,274.48	1,397.39	62,253.56	2,853.87	.....	2,210.79	.....	14,300.03
225.00	314.17	1,902.86	234.21	.....	.....	.....	1,617.60
8,172.40	1,607.70	6,583.99	1,906.23	653.44	996.00	1,310.00	4,051.56
2,914.95	552.01	3,052.55	452.15	143.26	260.64	143.37	3,049.80
92,433.04	12,315.29	121,507.52	15,749.41	4,501.92	11,125.36	7,767.23	55,310.56
51,681.77	6,866.01	80,509.14	9,248.28	2,633.95	7,302.13	4,190.57	33,086.69
453.72	195.28	.....	.....	.....	.....	.....	349.30
331.53	.....	43.53	.....	.....	.....	.....	.....
3,542.57	799.46	2,209.22	1,667.54	79.17	947.08	164.64	3,032.26
325.11	37.44	182.06	42.25	31.77	.....	.....	166.94
1,899.64	199.78	1,065.94	367.09	63.88	116.40	135.35	395.08
2,278.24	21.46	403.84	17.03	.....	98.38	.....	551.40
1,376.53	263.19	438.02	255.16	31.78	62.93	98.56	873.27
1,093.22	.....	78.80	.....	.....	.....	.....	1,631.92
3,543.16	499.73	2,798.62	822.53	.....	.....	.....	1,289.10
2,594.32	1,165.76	5,234.99	1,060.87	215.07	640.32	816.09	2,165.55
432.96	54.47	1,606.40	63.60	6.74	32.00	.....	143.35
1,027.72	262.35	.....	.....	.....	.....	42.56	.....
1,665.80	.....	4,048.17	415.31	519.17	602.43	708.03	1,599.43
15,571.34	.....	6,461.33	.....	279.97	823.36	562.24	2,726.65
6,556.00	882.00	4,561.00	549.00	244.00	806.00	239.00	3,374.00
500.00	.....	.....	83.97	.....	.....	.....	.....
94,873.63	11,246.93	109,641.06	14,592.63	4,105.50	11,431.03	6,957.04	51,384.94
.....	1,068.36	11,866.46	1,156.78	396.42	.....	810.19	3,925.62
2,440.59	.....	.....	.....	.....	305.67	.....	.....
1,795	262	1,402	287	112	308	106	875
271	84	262	97	47	65	49	161
44	10	49	11	.....	6	.....	20
2,110	356	1,713	395	159	379	155	1,056

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded				THUNDER BAY SYSTEM
Municipality.....	Williams- burg P.V.	Winchester	EASTERN ONTARIO SYSTEM SUMMARY	Fort William
Population.....		1,029		24,231
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,842.00	6,237.79	1,513,932.20	190,834.87
Commercial light service.....	4,778.22	3,407.54	747,894.43	63,896.06
Commercial power service.....	165.66	1,506.59	909,552.12	38,892.32
Municipal power.....			73,891.91	25,731.82
Street lighting.....	240.00	944.00	240,600.69	18,005.06
Merchandise.....		246.85	3,963.23	
Miscellaneous.....	496.55	398.48	75,662.29	6,531.65
Total earnings.....	8,522.43	12,741.25	3,565,496.87	343,891.78
EXPENSES				
Power purchased.....	4,983.60	8,350.77	2,220,739.05	226,084.95
Substation operation.....			49,230.07	7,640.56
Substation maintenance.....			5,240.69	434.00
Distribution system, operation and maintenance.....	327.84	220.29	102,994.03	8,835.86
Line transformer maintenance.....			7,601.19	469.22
Meter maintenance.....	21.70	14.57	41,680.37	7,472.11
Consumers' premises expenses.....	124.04	143.20	32,136.30	1,987.60
Street lighting, operation and main- tenance.....	260.35	49.52	57,827.16	6,599.11
Promotion of business.....			22,938.13	5,496.54
Billing and collecting.....		551.45	104,037.43	10,952.91
General office, salaries and expenses...	743.06	288.12	129,092.51	6,205.95
Undistributed expenses.....			45,613.30	3,430.25
Truck operation and maintenance.....			12,069.29	1,821.70
Interest.....	33.40	288.30	109,896.26	14,238.82
Sinking fund and principal payments on debentures.....		485.40	116,655.25	7,943.17
Depreciation.....	251.00	664.00	212,334.00	14,112.00
Other reserves.....	100.00		4,962.30	1,854.16
Total operating costs and fixed charges.....	6,844.99	11,055.62	3,275,047.33	325,578.91
Net surplus.....	1,677.44	1,685.63	290,449.54	18,312.87
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	116	286	58,165	5,498
Commercial light service.....	60	76	9,399	908
Power service.....	1	3	1,309	108
Total.....	177	365	68,873	6,514

“B”—Concluded

Hydro Municipalities for Year Ended December 31, 1937

NORTHERN ONTARIO PROPERTIES—
SUDBURY DISTRICT

Nipigon Twp.	Port Arthur 20,045	THUNDER BAY SYSTEM SUMMARY	Capreol 1,745	Sudbury 24,440	SUDBURY DISTRICT SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,223.05	108,211.27	302,269.19	9,060.17	177,366.47	186,426.64	12,448,345.63
2,884.02	56,533.66	123,313.74	3,954.05	148,911.93	152,865.98	6,510,685.15
220.64	724,306.16	763,419.12	.....	37,401.64	37,401.64	11,063,764.43
472.81	34,967.60	61,172.23	708.97	12,011.76	12,720.73	1,731,311.34
593.00	19,353.56	37,951.62	1,800.00	20,419.55	22,219.55	1,781,363.37
.....	.....	.....	.....	.....	.....	22,971.02
81.94	21,191.91	27,805.50	.....	2,301.30	2,301.30	607,035.54
7,475.46	964,564.16	1,315,931.40	15,523.19	398,412.65	413,935.84	34,165,476.48
3,032.16	791,763.71	1,020,880.82	5,072.58	182,943.18	188,015.76	20,532,736.85
.....	21,687.37	29,327.93	17.94	3,770.10	3,788.04	490,737.94
.....	3,786.41	4,220.41	.....	.....	.....	300,389.49
243.02	13,563.26	22,642.14	1,107.57	11,583.82	12,691.39	889,990.11
.....	1,642.77	2,111.99	.....	786.31	786.31	81,365.18
.....	6,067.07	13,539.18	210.80	4,645.21	4,856.01	343,658.47
.....	.....	1,987.60	.....	.....	.....	420,366.36
171.43	6,287.10	13,057.64	440.45	6,077.81	6,518.26	364,325.53
.....	2,666.90	8,163.44	.....	.....	.....	294,574.21
.....	10,642.62	21,595.53	1,453.97	14,163.22	15,617.19	980,540.10
707.51	13,974.46	20,887.92	703.06	10,814.55	11,517.61	940,890.76
55.74	4,179.06	7,665.05	60.82	52,407.25	52,468.07	476,370.44
.....	1,120.98	2,942.68	.....	3,123.02	3,123.02	77,995.38
325.25	7,619.44	22,183.51	670.06	10,300.54	10,970.60	1,752,287.58
547.00	3,186.50	11,676.67	1,692.06	16,713.05	18,405.11	2,429,565.06
629.00	27,618.57	42,359.57	664.00	11,565.00	12,229.00	2,252,333.72
.....	4,000.00	5,854.16	65.00	15,000.00	15,065.00	77,291.92
5,711.11	919,806.22	1,251,096.24	12,158.31	343,893.06	356,051.37	32,705,419.10
1,764.35	44,757.94	64,835.16	3,364.88	54,519.59	57,884.47	1,460,057.38
.....
175	4,455	10,128	302	5,403	5,705	481,610
53	803	1,764	53	884	937	74,682
2	102	212	1	170	171	12,943
230	5,360	12,104	356	6,457	6,813	569,235

STATEMENT "C"

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
Acton.....	1,993	{ 131 5 8 60 1 4	80 c.p. 80 c.p. 60 watt 100 watt 150 watt 300 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> 9.00 12.00 4.00 9.00 12.00 20.00	1,903.71	0.96
Agincourt.....		62	100 watt	<i>m</i> 12.00	744.00	**
Ailsa Craig.....	452	{ 63 1	100 watt 200 watt	<i>m</i> 10.00 <i>m</i> 18.00	648.00	1.43
Alexandria.....	1,926	{ 137 1	100 watt 200 watt	<i>m</i> 14.00 <i>m</i> 24.00	1,936.00	1.00
Alliston.....	1,320	{ 101 12	80 c.p. 100 watt	<i>s</i> 17.50 <i>m</i> 17.50	2,030.03	1.54
Alvinston.....	643	{ 84 6	100 watt 200 watt	<i>m</i> 20.00 <i>m</i> 29.00	1,854.00	2.88
Amherstburg....	2,879	{ 82 9 25 12	100 c.p. 250 c.p. 200 watt 300 watt	<i>s</i> 15.00 <i>s</i> 30.00 <i>m</i> 20.00 <i>m</i> 30.00	2,373.28	††
Ancaster Twp....		{ 32 49	100 watt 150 watt	<i>m</i> 11.50 <i>m</i> 14.00	1,054.00	**
Apple Hill.....		33	100 watt	<i>m</i> 14.50	478.50	**
Arkona.....	415	50	100 watt	<i>m</i> 20.00	1,000.00	2.41
Arthur.....	1,052	90	100 watt	<i>m</i> 16.50	1,476.78	1.40
Athens.....	669	{ 40 23	100 watt 200 watt	<i>m</i> 12.00 <i>m</i> 25.00	1,055.00	1.58
Aylmer.....	1,995	{ 185 24 1	100 watt 300 watt Traffic light	<i>m</i> 10.00 <i>m</i> 25.00 <i>m</i> 40.00	2,482.50	1.24
Ayr.....	770	{ 92 3	100 watt 500 watt	<i>m</i> 10.00 <i>m</i> 36.00	1,028.00	1.34
Baden.....		82	100 watt	<i>m</i> 9.00	711.00	**

NOTE: The "Cost to municipality in 1937" represents the charges billed to the municipality by the utility for street lighting service in the calendar year. This total charge differs in some cases from the total computed for the installation at the rates shown, for the following reasons:— FIRST: Certain equipment may have been in service for less than twelve months. SECOND: More equipment than shown for December 31 may have been in service earlier in the year.

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
Barrie.....	8,126	{ 475	150 c.p. s	9.00	6,151.00	0.76
		{ 15	100 watt m	17.00		
		{ 48	200 watt m	22.00		
		{ 8	200 watt m	18.00		
		{ 3	200 watt (6 mos.) m	15.00		
		{ 13	300 watt m	25.00		
		{ 1	500 watt m	30.00		
Bath.....	318	21	100 watt m	34.00	714.00	2.25
Beachville.....		47	100 watt m	11.00	517.00	**
Beaverton.....	976	{ 106	100 watt m	10.00	1,317.02	1.35
		{ 11	100 watt (6 mos.) m	7.00		
		{ 6	500 watt m	30.00		
Beeton.....	605	{ 65	150 c.p. s	16.00	1,264.00	2.09
		{ 14	100 watt m	16.00		
Belle River.....	748	{ 78	100 watt m	12.00	963.00	1.29
		{	1,800 watt, 3 mos. Decorative m	50 per 100w per month		
Belleville.....	14,509	{ 533	100 c.p. s	8.00	10,665.46	0.73
		{ 11	250 c.p. s	18.00		
		{ 52	1,000 c.p. s	38.00		
		{ 189	300 watt m	23.00		
Blenheim.....	1,755	{ 165	150 c.p. s	12.00	2,518.50	1.44
		{ 3	400 c.p. s	28.00		
		{ 12	600 c.p. s	37.00		
		{ 1	Traffic light m	16.00		
Bloomfield.....	663	60	100 c.p. s	11.00	660.00	1.00
Blyth.....	624	{ 90	100 watt m	13.00	1,580.00	2.53
		{ 20	200 watt m	20.50		
Bolton.....	569	{ 48	100 watt m	12.00	1,058.52	1.86
		{ 23	200 watt m	21.00		
Bothwell.....	642	{ 66	100 watt m	11.00	1,293.00	2.01
		{ 21	300 watt m	27.00		
Bowmanville....	3,611	{ 177	100 c.p. s	10.00	3,122.66	0.86
		{ 4	150 watt m	20.00		
		{ 42	300 watt m	30.00		
Bradford.....	989	{ 60	150 c.p. s	16.00	1,072.00	1.08
		{ 7	100 watt m	16.00		
Brampton.....	5,568	{ 676	100 watt m	8.00	5,473.00	0.98
		{ 2	500 watt m	35.00		
Brantford.....	31,232	{ 149	1,500 c.p. s	45.00	33,268.31	††
		{ 3,422	100 watt m	7.50		
		{ 8	250 watt m	10.00		
		{ 2	300 watt m	16.00		
		{ 18	750 watt m	37.00		
		{ 4	750 watt m	46.00		

**Population not shown in Government statistics. s Series system. m Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
Brantford Twp.		373	100 watt <i>m</i>	\$ c. 11.00	\$ c. 4,072.75	\$ c. **
Brechin.	‡	33	100 watt <i>m</i>	14.00	462.00	**
Bridgeport.		{ 57 12	100 watt <i>m</i> 100 watt (bridge) <i>m</i>	{ 11.00 8.00 }	723.00	**
Brigden.		{ 46 21	60 watt <i>m</i> 100 watt <i>m</i>	{ 11.00 14.00 }	800.00	**
Brighton.	1,420	137	100 c.p. <i>s</i>	16.00	2,191.92	1.54
Brockville.	9,903	{ 633 10 35 51 13	100 c.p. <i>s</i> 200 watt <i>m</i> 3 lt. stands <i>m</i> 5 lt. stands <i>m</i> 300 watt <i>m</i>	{ 10.00 19.00 21.00 24.00 20.00 }	8,584.50	0.90
Brussels.	787	{ 81 18	100 watt <i>m</i> 200 watt <i>m</i>	{ 12.00 18.00 }	1,296.00	1.65
Burford.		67	100 watt <i>m</i>	10.00	670.00	**
Burgessville.		24	100 watt <i>m</i>	13.00	312.00	**
Caledonia.	1,370	{ 147 20 9 6 2	100 watt <i>m</i> 100 watt (bridge) <i>m</i> 100 watt (twp.) <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i>	{ 9.00 9.50 13.00 14.00 21.00 }	1,755.96	1.28
Campbellville.		20	100 watt <i>m</i>	24.00	480.00	**
Cannington.	761	{ 62 1 3 3	100 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i>	{ 15.00 18.50 22.00 32.00 }	1,110.50	1.46
Capreol.	1,745	90	100 watt <i>m</i>	20.00	1,800.00	1.03
Cardinal.	1,471	{ 48 12	100 watt <i>m</i> 200 watt <i>m</i>	{ 15.00 21.00 }	932.00	0.63
Carleton Place.	4,275	{ 82 102 68	60 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i>	{ 13.00 20.00 25.00 }	4,806.00	1.12
Cayuga.	674	{ 81 1	100 watt <i>m</i> 150 watt <i>m</i>	{ 18.00 20.00 }	1,458.00	2.16
Chatham.	15,910	{ 720 19 42 35 75 137 2	150 c.p. <i>s</i> 250 c.p. <i>s</i> 600 c.p. <i>s</i> 150 c.p. orn. <i>s</i> 600 c.p. orn. <i>s</i> 1,000 c.p. orn. <i>s</i> 250 watt floodlights <i>m</i>	{ 13.00 16.00 31.00 12.00 30.00 38.00 24.00 }	19,270.83	††

‡Includes Mara and Thora townships.

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
Chatsworth.....	321	41	100 watt <i>m</i>	\$ c. 15.00	\$ c. 615.00	\$ c. 1.92
Chesley.....	1,766	121	150 c.p. <i>s</i>	13.00	1,572.96	0.89
Chesterville.....	1,067	{ 86	100 watt <i>m</i> Decorative lights <i>m</i>	12.00 442.19	1,179.40	1.10
Chippawa.....	1,187	98	100 watt <i>m</i>	13.00	1,178.11	0.99
Clifford.....	441	{ 56 9	100 watt <i>m</i> 200 watt <i>m</i>	13.00 20.00	823.62	1.87
Clinton.....	1,865	{ 145 4 29 1	150 c.p. <i>s</i> 100 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i>	11.00 11.00 31.00 55.00	2,101.33	1.13
Cobden.....	637	{ 38 12	100 watt <i>m</i> 150 watt <i>m</i>	16.00 25.00	908.00	1.43
Cobourg.....	5,063	{ 397 4 19	100 c.p. <i>s</i> 250 c.p. <i>s</i> 500 watt <i>m</i>	12.00 23.00 47.50	5,709.52	1.11
Colborne.....	954	{ 118 3	60 c.p. <i>s</i> 100 watt <i>m</i>	12.00 12.00	1,452.00	1.52
Coldwater.....	589	{ 51 19	100 watt <i>m</i> 200 watt <i>m</i>	11.00 17.00	884.00	1.50
Collingwood....	5,498	423	150 c.p. <i>s</i>	9.00	3,792.25	0.69
Comber.....		56	100 watt <i>m</i>	12.00	662.00	**
Cookstown.....		56	150 c.p. <i>s</i>	15.00	840.00	**
Cottam.....		32	100 watt <i>m</i>	15.00	480.00	**
Courtright.....	286	43	100 watt <i>m</i>	18.00	774.00	2.71
Creemore.....	631	60	100 watt <i>m</i>	12.00	720.00	1.14
Dashwood.....		40	100 watt <i>m</i>	11.00	451.00	**
Delaware.....		22	100 watt <i>m</i>	12.00	264.00	**
Deseronto.....	1,287	132	100 c.p. <i>s</i>	10.00	1,320.00	1.02
Dorchester.....		68	100 watt <i>m</i>	10.00	672.55	**
Drayton.....	566	80	100 watt <i>m</i>	12.00	960.00	1.70
Dresden.....	1,468	{ 128 15 12	100 c.p. <i>s</i> 50 watt <i>m</i> 100 watt <i>m</i>	13.00 5.70 12.00	1,876.32	1.28
Drumbo.....		39	100 watt <i>m</i>	13.00	507.00	**
Dublin.....		50	100 watt <i>m</i>	14.00	700.00	**

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
Dundalk.....	652	82	100 watt <i>m</i>	\$ c. 15.00	\$ c. 1,230.00	\$ c. 1.89
Dundas.....	4,757	{ 286	100 watt <i>m</i>	12.00	5,518.00	††
		{ 12	200 watt <i>m</i>	16.00		
		{ 54	200 watt <i>m</i>	32.00		
		{ 6	200 watt orn. <i>m</i>	26.00		
		{ 20	100 watt <i>m</i> free Memorial Square			
Dunnville.....	4,001	{ 248	150 c.p. <i>s</i>	10.50	3,679.65	0.92
		{ 27	1,000 c.p. <i>s</i>	40.00		
Durham.....	1,816	{ 106	150 c.p. <i>s</i>	16.00	1,839.96	1.01
		{ 6	400 c.p. <i>s</i>	24.00		
Dutton.....	776	114	100 watt <i>m</i>	9.00	1,021.44	1.32
East York Twp.		{ 1	60 watt <i>m</i>	7.80	19,632.37	**
		{ 985	100 watt <i>m</i>	13.00		
		{ 4	200 watt <i>m</i>	19.50		
		{ 2	250 watt <i>m</i>	22.75		
		{ 244	300 watt <i>m</i>	26.00		
Elmira.....	2,063	{ 15	500 watt <i>m</i>	29.00	1,834.00	0.89
		{ 190	100 watt <i>m</i>	9.00		
		{ 8	200 watt <i>m</i>	12.00		
		{ 1	500 watt <i>m</i>	28.00		
Elmvale.....		58	100 watt <i>m</i>	12.00	696.00	**
Elmwood.....		23	150 watt <i>m</i>	23.00	529.00	**
Elora.....	1,138	{ 82	100 watt <i>m</i>	14.00	1,687.92	1.48
		{ 27	200 watt <i>m</i>	20.00		
Embro.....	449	56	100 watt <i>m</i>	12.00	672.00	1.50
Erieau.....	238	24	100 watt <i>m</i>	18.00	394.50	1.66
Essex.....	1,798	{ 133	60 watt <i>m</i>	7.50	2,074.08	††
		{ 15	100 watt <i>m</i>	10.00		
		{ 47	300 watt <i>m</i>	18.00		
		{ 1	500 watt <i>m</i>	28.00		
		{ 7	Empty sockets <i>m</i>	4.50		
Etobicoke Twp.		{ 14	Empty sockets <i>m</i>	1.50	13,607.97	**
		{ 976	100 watt <i>m</i>	13.50		
		{ 22	100 watt <i>m</i>	18.00		
		{ 2	250 watt <i>m</i>	32.00		
Exeter.....	1,629	{ 3	100 watt (park) <i>m</i>	8.50	2,711.55	1.66
		{ 174	100 watt <i>m</i>	9.50		
		{ 32	300 watt <i>m</i>	33.00		
Fergus.....	2,785	{ 152	100 watt <i>m</i>	12.00	2,719.37	0.98
		{ 41	150 watt <i>m</i>	14.50		
		{ 4	Traffic lights (4 mos.) <i>m</i>	18.00		
Finch.....	392	38	100 watt <i>m</i>	12.00	456.00	1.16
Flesherton.....	446	{ 53	100 watt <i>m</i>	11.00	608.00	1.36
		{ 1	300 watt <i>m</i>	26.00		
Fonthill.....	803	71	100 watt <i>m</i>	15.00	1,065.00	1.33

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
Forest.....	1,586	{ 131 123 3	{ 60 watt <i>m</i> 100 watt <i>m</i> 100 watt <i>m</i> (Station platform)	{ 7.00 11.00 17.00	2,321.00	1.46
Fort William....	24,231	{ 378 58 78 238 187 64	{ 100 c.p. <i>s</i> 400 c.p. <i>s</i> 600 c.p. <i>s</i> 1,000 c.p. <i>s</i> 100 watt <i>m</i> 300 watt <i>m</i>	{ 8.00 18.00 28.00 38.00 8.00 23.00	18,005.06	0.74
Galt.....	14,119	{ 975 289 100 27 60 18 40 31 4 80 12	{ 80 c.p. <i>s</i> 100 watt <i>m</i> 100 watt <i>m</i> 100 watt <i>m</i> 150 watt <i>m</i> 150 watt (bridge) <i>m</i> 150 watt <i>m</i> 150 watt <i>m</i> 300 watt <i>m</i> 300 watt <i>m</i> 300 watt <i>m</i>	{ 9.00 6.50 8.00 16.00 9.00 8.50 18.00 21.00 16.50 17.00 26.00	15,660.50	1.11
Georgetown†....	2,189	{ 156 22 1 21	{ 100 watt <i>m</i> 100 watt <i>m</i> 300 watt <i>m</i> (floodlight) 300 watt <i>m</i>	{ 11.00 13.00 19.00 30.00	2,650.89	.....
Glencoe.....	778	{ 113 19	{ 100 watt <i>m</i> 200 watt <i>m</i>	{ 14.00 20.00	1,962.00	2.52
Goderich.....	4,336	{ 325 3 8 4 8 16	{ 100 c.p. <i>s</i> 100 c.p. (6 mos.) <i>s</i> 100 watt <i>m</i> 250 watt <i>m</i> 500 watt stands <i>m</i> 600 watt stands <i>m</i>	{ 9.00 9.00 15.00 18.00 37.00 52.00	4,001.84	0.92
Grand Valley...	582	{ 39 13	{ 100 watt <i>m</i> 300 watt <i>m</i>	{ 17.00 25.00	988.00	1.70
Granton.....	.....	37	100 watt <i>m</i>	10.00	370.00	**
Gravenhurst....	1,996	{ 134 22 10 8 2 16	{ 100 c.p. <i>s</i> 50 watt <i>m</i> 50 watt (6 mos.) <i>m</i> 100 watt (6 mos.) <i>m</i> 100 watt <i>m</i> 300 watt <i>m</i>	{ 10.00 7.50 4.00 6.00 10.00 30.00	2,092.98	1.05
Guelph.....	21,455	{ 12 6 1,376 172 35 9 53 1	{ 50 watt <i>m</i> 60 watt <i>m</i> 100 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i> 500 watt (220 V.) <i>m</i> Airport beacon <i>m</i>	{ 4.00 4.00 10.00 12.50 18.75 25.00 34.00 60.00	18,867.05	0.88

†Includes Glen Williams.

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
Hagersville.	1,345	{ 115 20	100 watt 300 watt	<i>m</i> <i>m</i>	\$ c. 14.00 22.00	\$ c. 2,050.00 1.52
		{ 6 96 8,283 1,168 5 28 77 27 480 597 65 3 2	40 watt 50 watt 100 watt 200 watt 300 watt 300 watt 300 watt 300 watt 500 watt 500 watt 750 watt Danger signals 1,200 watt stand's	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	4.50 6.00 7.50 11.00 18.00 26.00 32.00 34.00 32.00 37.00 55.00 28.00 70.00	
Hamilton.	154,020	{			123,775.35	0.80
		{ 93 16 4 13	150 c.p. 300 c.p. 100 watt 200 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i>	22.00 27.00 22.00 27.00	2,952.54 0.96
Hanover.	3,061	{	Decorative lighting	<i>m</i>	— \$5.91 per month	
		{ 76 4 13 29	150 c.p. 100 watt 150 watt 200 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i>	12.00 12.00 12.00 15.00	1,551.00 1.22
Harriston.	1,273	{				
		{ 1 80	100 watt 200 watt	<i>m</i> <i>m</i>	12.00 16.50	1,319.67 1.44
Harrow.	918	{				
		{ 63 8	100 watt 200 watt	<i>m</i> <i>m</i>	16.00 20.00	1,221.40 1.51
Hastings.	811	{				
		{ 63 22	100 c.p. 250 c.p.	<i>s</i> <i>s</i>	16.00 25.00	1,533.00 1.27
Havelock.	1,208	{				
		{ 84	100 watt	<i>m</i>	12.00	1,006.00 1.40
Hensall.	719	{				
		{ 91 34 15 51 10 7	150 c.p. 250 c.p. 400 c.p. stand's 150 watt 300 watt 300 watt stand's—park	<i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	12.00 16.00 30.00 11.00 21.50 35.00	3,107.00 1.09
Hespeler.	2,861	{				
		{ 40 6 1	100 watt 200 watt 300 watt	<i>m</i> <i>m</i> <i>m</i>	11.00 17.00 25.00	567.00 1.73
Highgate.	327	{				
		{ 14	100 watt	<i>m</i>	25.00	350.00 **
Holstein.		{				
		{ 107 16	100 watt 200 watt	<i>m</i> <i>m</i>	12.50 17.50	1,481.79 0.58
Humberstone.	2,563	{				
		{ 47 26 28 68 97	100 c.p. 150 c.p. 250 c.p. 75 watt 75 watt	<i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i>	12.00 16.00 20.00 10.00 42 cts. per kw.	2,473.05 0.92
Huntsville.	2,700	{	orn. stand's			

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
Ingersol.....	5,139	{ 322 2 26 2 13 12	100 c.p. s 600 c.p. s 1,000 c.p. s 1,000 c.p. (church) s 100 c.p. (6 mos.) s 300 watt m	10.00 23.00 35.00 25.00 5.50 30.00	4,667.34.	††
Jarvis.....	504	78	100 watt m	11.00	821.33	1.63
Kemptville.....	1,178	{ 77 17 1	100 watt m 150 watt m 250 watt m	18.00 21.00 25.00	1,729.75	1.47
Kincardine.....	2,468	{ 152 25 5 37 1	150 c.p. s 100 watt m 100 watt (6 mos.) m 200 watt m 1,000 watt (6 mos.) m	20.00 15.00 15.00 25.00 85.00	4,432.50	1.80
Kingston.....	23,513	{ 102 268 258	100 c.p. s 600 c.p. s 600 c.p. s	12.00 35.00 46.00	15,977.70	0.68
Kingsville.....	2,282	{ 112 25 122	150 c.p. s 250 c.p. s 100 watt m	10.50 15.00 10.50	2,832.00	††
Kirkfield.....	.....	24	100 watt m	20.00	480.00	**
Kitchener.....	32,650	{ 2,058 129 18 47 204 458 50 109	80 c.p. s 250 c.p. s 1,000 c.p. s 16 c.p. Fire alarms 100 watt m 200 watt m 300 watt m 500 watt m	9.00 13.00 25.00 7.00 9.00 15.00 17.50 25.00	33,251.04	††
Lakefield.....	1,337	113	100 watt m	15.00	1,736.62	1.30
Lambeth.....	.....	{ 10 20	100 watt m 300 watt m	11.00 31.00	722.66	**
Lanark.....	623	38	100 watt m	15.00	570.00	0.91
Lancaster.....	608	41	100 watt m	20.00	825.00	1.36
La Salle†.....	782	66	Empty sockets m	5.00	330.00	.....
Leamington.....	5,340	{ 176 4 193	250 c.p. s 400 c.p. s 100 watt m	15.00 19.00 14.00	5,414.58	††
Lindsay.....	7,116	{ 419 27	100 c.p. s 1,000 c.p. s	11.50 60.00	6,423.20	0.90

†Lights not in use.

**Population not shown in Government statistics. s Series system. m Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps		Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
					\$ c.	\$ c.	\$ c.
Listowel.....	2,819	{ 310 8 26 3	100 watt 200 watt 300 watt 500 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i>	11.00 25.00 30.00 35.00	3,938.83	††
		{ 8 1,945 116 305 33 277 2	150 c.p. 150 c.p. 400 c.p. 400 c.p. 600 c.p. 600 c.p. 50 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i>	10.00 11.00 18.00 24.00 28.00 30.00 5.00		
London.....	73,091	{ 183 6 4 12 64 533 40 10 46	100 watt 100 watt 150 watt 200 watt 200 watt 300 watt 300 watt 500 watt 500 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	10.00 11.00 12.00 9.34 14.00 18.00 20.00 25.00 40.00	56,556.93	††
London Twp.....		{ 63 9 1 10	100 watt 100 watt (8 mos.) 200 watt 300 watt (4 mos.)	<i>m</i> <i>m</i> <i>m</i> <i>m</i>	12.00 12.00 16.50 30.00	944.50	**
Long Branch....	4,099	304	100 watt	<i>m</i>	13.00	3,945.56	0.96
Lucan.....	613	71	100 watt	<i>m</i>	14.00	994.02	1.62
Lucknow.....	1,068	{ 78 17	100 watt 200 watt	<i>m</i> <i>m</i>	21.00 31.00	1,691.90	1.58
Lynden.....		44	100 watt	<i>m</i>	10.00	440.00	**
Madoc.....	1,253	{ 394 65 1	25 watt 100 watt 300 watt	<i>m</i> <i>m</i> <i>m</i>	3.00 5.00 11.00	1,500.00	1.20
Markdale.....	802	90	150 c.p.	<i>s</i>	10.00	900.00	1.12
Markham.....	1,112	112	100 watt	<i>m</i>	12.00	1,344.00	1.21
Marmora.....	948	{ 44 24 19	75 watt 100 watt 150 watt	<i>m</i> <i>m</i> <i>m</i>	14.00 16.00 19.00	1,361.00	1.43
Martintown.....		15	100 watt	<i>m</i>	13.00	195.00	**
Maxville.....	741	66	150 c.p.	<i>s</i>	18.00	1,175.25	1.59
Meaford.....	2,719	{ 182 28 35	150 c.p. 100 watt 200 watt	<i>s</i> <i>m</i> <i>m</i>	11.00 11.00 19.00	2,975.00	1.09
Merlin.....		44	100 watt	<i>m</i>	15.00	652.50	**

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

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STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
Merritton.....	2,543	{ 310 26	100 watt <i>m</i> 200 watt <i>m</i>	9.00 21.00	3,342.83	1.31
Midland.....	6,690	{ 328 52 30 8 36	150 c.p. <i>s</i> 100 watt <i>m</i> 300 watt <i>m</i> 300 watt (6 mos.) <i>m</i> 500 watt <i>m</i>	11.00 11.00 22.00 12.00 40.00	6,376.00	0.95
Mildmay.....	750	{ 46 11	100 watt <i>m</i> 150 watt <i>m</i>	11.00 18.00	731.00	0.97
Milton.....	1,785	{ 125 25	100 watt <i>m</i> 300 watt <i>m</i>	9.50 30.00	2,031.08	1.14
Milverton.....	987	{ 97 12	100 watt <i>m</i> 200 watt <i>m</i>	9.00 12.00	1,015.50	1.03
Mimico.....	6,876	{ 330 90 64	100 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i>	12.00 20.00 26.00	7,223.14	1.05
Mitchell.....	1,577	{ 188 27	150 c.p. <i>s</i> 300 watt <i>m</i>	9.00 29.00	2,120.25	1.35
Moorefield.....		25	100 watt <i>m</i>	14.00	350.00	**
Mount Brydges.....		{ 53 1	100 watt <i>m</i> 200 watt <i>m</i>	10.00 17.00	547.00	**
Mount Forest...	1,815	{ 120 39 37 3	150 c.p. <i>s</i> 250 c.p. <i>s</i> 100 watt <i>m</i> 300 watt <i>m</i>	10.00 13.00 10.00 28.00	2,093.67	1.15
Napanee.....	3,061	{ 153 2 2 40 5 21	100 watt <i>m</i> 250 watt <i>m</i> 250 watt <i>m</i> 300 watt <i>m</i> 300 watt stand's <i>m</i> 400 watt clusters <i>m</i>	12.00 28.00 30.00 34.00 27.00 36.00	4,198.77	1.37
Neustadt.....	451	39	150 c.p. <i>s</i>	20.00	780.00	1.73
Newbury.....	276	47	100 watt <i>m</i>	15.00	705.00	2.55
Newcastle†.....	675	{ 49 2	60 watt <i>m</i> 100 watt <i>m</i>	14.00 17.00	660.00	.....
New Hamburg..	1,464	{ 165 61	100 watt <i>m</i> 200 watt <i>m</i>	9.00 12.00	2,217.00	1.51
New Toronto...	6,848	{ 122 20 15 126 14 83 2	75 watt <i>m</i> 150 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i> 300 watt <i>m</i> 300 watt <i>m</i> 1,000 watt <i>m</i>	13.00 15.50 17.00 24.00 22.00 21.00 52.00	7,329.96	1.07

**Population not shown in Government statistics. *s* Series system. *m* Multiple system

†Eleven months revenue.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
Niagara Falls...	18,747	{ 827 9 64 235 196 4	{ 100 c.p. 250 c.p. 600 c.p. 600 c.p. 1,000 c.p. 100 watt	{ s s s s s m 11.00 13.00 18.00 37.00 42.00 11.00	27,358.84	1.46
Niagara-on-the-Lake	1,563	{ 223 17 12	{ 100 watt 200 watt 300 watt	{ m m m 11.00 18.00 20.00	2,910.52	1.86
Nipigon.....		{ 29 9	{ 100 watt 200 watt	{ m m 13.00 24.00	593.00	**
North York Twp.....		{ 81 20 32 12 10 1 1 65 1 1 2 1 1 1	{ 100 watt 100 watt 100 watt 100 watt 100 watt 100 watt 100 watt 200 watt 400 watt (floodlight) 400 watt (mercury) 1,000 watt (floodlight) 100 watt Police sign Traffic light Traffic light	{ m m m m m m m m m m m m m m m 8.00 30.00 12.00 14.00 13.00 28.00 12.50 28.00 12.00 18.00 25.00 11.00 27.00 12.00 13.00 18.00	3,953.57	**
Norwich.....	1,174	{ 114 28	{ 100 watt 400 watt	{ m m 10.00 35.00	2,120.00	1.81
Norwood.....	753	87	100 c.p.	s 18.00	1,566.00	2.08
Oil Springs.....	472	{ 41 1	{ 100 watt 300 watt (6 mos.)	{ m m 18.00 30.00	768.00	1.63
Omeme.....	579	{ 48 4 10	{ 100 c.p. 100 watt 250 watt	{ s m m 14.00 12.50 28.00	1,002.00	1.73
Orangeville.....	2,479	{ 100 48 38	{ 150 c.p. 250 c.p. 300 watt	{ s s m 12.00 18.00 25.00	3,016.04	1.22
Oshawa.....	24,692	{ 855 1 48 111 30	{ 100 c.p. 1,000 c.p. 100 watt 150 watt 200 watt	{ s s m m m 11.00 27.00 12.00 13.00 18.00	11,935.37	0.48

**Population not shown in Government statistics. s Series system. m Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
Ottawa.....	141,903	767	100 c.p. (driveway) <i>s</i>	6.00	77,334.92	0.54
		356	100 c.p. <i>s</i>	7.00		
		856	400 c.p. <i>s</i>	25.00		
		875	600 c.p. <i>s</i>	35.00		
		59	Arcs..... <i>s</i>	45.00		
		2,910	100 watt (white way) <i>m</i>	48c. per ft.		
		39	100 watt (residential) <i>m</i>	5½c. per ft.		
Otterville.....		57	100 watt <i>m</i>	11.00	815.67	**
		13	200 watt <i>m</i>	16.00		
Owen Sound....	13,100	441	150 c.p. <i>s</i>	13.00	13,083.55	1.00
		335	400 c.p. <i>s</i>	16.00		
		12	600 c.p. <i>s</i>	23.00		
		43	1,000 c.p. <i>s</i>	37.00		
Paisley.....	792	90	100 watt <i>m</i>	14.00	1,260.00	1.59
Palmerston.....	1,410	66	80 c.p. <i>s</i>	9.00	2,609.77	1.85
		1	400 c.p. <i>s</i>	25.00		
		11	60 watt <i>m</i>	9.00		
		25	100 watt <i>m</i>	10.00		
		9	150 watt <i>m</i>	10.00		
		4	250 watt <i>m</i>	25.00		
		19	300 watt <i>m</i>	25.00		
		1	500 watt <i>m</i>	35.00		
Paris.....	4,315	32	300 watt stand's <i>m</i>	30.00	5,543.50	1.28
		474	100 c.p. <i>s</i>	8.50		
		10	400 c.p. <i>s</i>	28.00		
		33	500 c.p. <i>s</i>	35.00		
		2	60 watt <i>m</i>	7.00		
		1	500 watt (6 mos.) <i>m</i>	35.00		
			Decorative light <i>m</i>	48.00		
Parkhill.....	997	88	100 watt <i>m</i>	14.00	1,577.04	1.58
		15	200 watt <i>m</i>	23.00		
Penetanguishene	4,061	191	150 c.p. <i>s</i>	11.00	2,276.00	0.56
		5	200 watt <i>m</i>	15.00		
		5	300 watt <i>m</i>	20.00		
Perth.....	4,184	82	100 c.p. <i>s</i>	17.00	2,440.92	0.58
		12	250 c.p. <i>s</i>	27.00		
		7	400 c.p. <i>s</i>	30.00		
		13	600 c.p. <i>s</i>	45.00		
Peterborough...	23,072	122	60 watt <i>m</i>	12.00	22,193.20	0.96
		372	100 watt <i>m</i>	13.00		
		605	300 watt <i>m</i>	20.00		
		85	300 watt <i>m</i>	45.00		

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STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
Petrolia.....	2,720	{ 149 24	150 c.p. 600 c.p.	<i>s</i> <i>s</i> 12.00 38.00	2,702.00	0.99
Picton.....	3,481	{ 239 85	100 c.p. 250 c.p.	<i>s</i> <i>s</i> 9.00 15.00	3,430.35	0.99
Plattsville.....		34	100 watt	<i>m</i> 12.00	408.00	**
Point Edward...	1,252	{ 100 15	150 c.p. 250 c.p.	<i>s</i> <i>s</i> 13.00 20.00	1,599.96	1.28
Port Arthur.....	20,045	{ 2,709 232 208	100 watt 300 watt 500 watt	<i>m</i> <i>m</i> <i>m</i> 5.00 10.00 15.00	19,353.56	0.92
Port Colborne...	6,196	{ 15 78 227 34 132	400 c.p. 600 c.p. 100 watt 100 watt 200 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> 25.00 30.00 12.00 14.00 18.00	7,998.58	††
Port Credit.....	1,755	275	100 watt	<i>m</i> 10.00	2,750.00	1.57
Port Dalhousie..	1,459	{ 129 2	100 watt Flood lights	<i>m</i> <i>m</i> 12.00 15.00	1,578.00	1.08
Port Dover.....	1,665	{ 201 15 34 4 236	100 watt 300 watt 100 watt (Summer) 300 watt (Summer) 25 watt Decorative	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> 10.00 18.00 6.00 10.00 0.67	2,682.12	1.61
Port Elgin.....	1,267	{ 110 165 114 26	100 watt (6 mos.) 100 watt (4 mos.) 100 watt (2 mos.) 200 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> 14.00 14.00 14.00 22.00	2,389.32	1.89
Port Hope.....	4,564	392	100 c.p.	<i>s</i> 11.00	4,311.96	0.94
Port McNicoll...	933	{ 62 16	100 watt 200 watt	<i>m</i> <i>m</i> 10.00 18.00	908.00	0.97
Port Perry.....	1,124	98	100 watt	<i>m</i> 15.00	1,470.00	1.31
Port Rowan....	666	55	100 watt	<i>m</i> 18.00	990.00	1.49
Port Stanley....	741	217	100 watt	<i>m</i> 11.00	2,361.42	3.19
Prescott.....	2,942	{ 169 105	100 watt 200 watt	<i>m</i> <i>m</i> 10.00 17.00	3,475.00	1.18

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STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
Preston.....	6,294	{ 135 214 9 40 6	150 c.p. <i>s</i> 100 watt <i>m</i> 250 watt <i>m</i> 500 watt <i>m</i> 500 watt stand's <i>m</i>	11.00 11.00 20.00 32.00 35.00	5,509.00	0.88
Priceville.....		14	100 watt <i>m</i>	40.00	560.00	**
Princeton.....		39	100 watt <i>m</i>	12.00	468.00	**
Queenston.....		19	100 watt <i>m</i>	16.00	304.12	**
Richmond.....	408	26	100 watt <i>m</i>	16.00	416.00	1.02
Richmond Hill..	1,268	{ 100 19 9	75 watt <i>m</i> 100 watt <i>m</i> 200 watt <i>m</i>	11.00 12.00 16.00	1,472.00	1.16
Ridgetown.....	1,983	{ 189 1 78 2 2 19	150 c.p. <i>s</i> 1,000 c.p. <i>s</i> 100 watt <i>m</i> 200 watt <i>m</i> 250 watt <i>m</i> 500 watt <i>m</i>	9.00 40.00 9.00 18.00 20.00 36.00	3,202.92	††
Ripley.....	442	{ 43 6	100 watt <i>m</i> 200 watt <i>m</i>	20.00 35.00	1,070.00	2.42
Riverside.....	5,017	{ 132 38	75 watt <i>m</i> 150 watt <i>m</i> Empty sockets <i>m</i>	12.00 16.00 708.00	2,900.04	††
Rockwood.....		86	100 watt <i>m</i>	9.00	774.00	**
Rodney.....	724	{ 69 22	100 watt <i>m</i> 200 watt <i>m</i>	10.00 18.00	1,086.00	1.50
Rosseau.....	315	40	100 watt <i>m</i>	30.00	1,160.25	3.68
Russell.....		47	100 watt <i>m</i>	16.00	752.00	**
St. Catharines.	26,834	{ 2,181 19 149 72 10 7 96 8	100 watt <i>m</i> 100 watt <i>m</i> 200 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i> 500 watt <i>m</i> 1,000 watt <i>m</i> 10.86 H.P. Bridge lights <i>m</i>	8.00 10.00 11.00 18.00 26.00 20.00 34.00 40.00 \$24.75 per H.P.	25,777.92	††
St. George.....		{ 39 1	100 watt <i>m</i> 750 watt <i>m</i>	10.00 38.00	412.17	**
St. Jacobs.....		46	100 watt <i>m</i>	10.00	460.00	**
St. Marys.....	4,023	{ 234 106 19 32	100 c.p. <i>s</i> 250 c.p. <i>s</i> 150 watt <i>m</i> 300 watt <i>m</i>	11.00 14.00 12.00 22.00	4,954.23	1.23

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STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
St. Thomas.....	16,088	1,092	100 c.p. s	9.00	14,847.15	††
		28	250 c.p. s	13.00		
		1	600 c.p. s	32.00		
		114	600 c.p. s	34.00		
		25	60 watt (5 mos.) m	3.00		
		6	60 watt m	4.50		
		39	100 watt (5 mos.) m	5.00		
		3	200 watt (5 mos.) m	10.00		
		22	300 watt m	22.00		
Sarnia.....	18,230	1,052	150 c.p. s	12.00	18,805.22	††
		54	250 c.p. s	16.50		
		72	400 c.p. s	22.00		
		77	600 c.p. s	35.00		
		14	600 c.p. s	45.00		
		7	100 watt m	12.00		
		8	150 watt m	16.50		
		5	250 watt m	22.00		
		14	300 watt m	32.00		
Scarboro Twp.....		213	100 c.p. s	12.00	14,929.70	**
		14	Empty sockets s	9.00		
		2	250 c.p. s	17.00		
		19	40 watt m	12.00		
		2	60 watt m	18.00		
		423	100 watt m	12.00		
		26	Empty sockets m	9.00		
		8	200 watt m	17.00		
		10	200 watt m	21.00		
		188	300 watt m	24.00		
		5	300 watt m	26.00		
Seaforth.....	1,717	119	100 c.p. s	10.50	1,783.33	1.04
		20	300 watt m	25.00		
		14	300 watt (1 mos.) m	29.00		
Shelburne.....	1,114	96	150 c.p. s	11.00	1,056.00	0.95
Simcoe.....	5,614	272	100 c.p. s	11.00	4,620.10	††
		7	250 c.p. s	15.00		
		27	1,000 c.p. s	40.00		
		8	150 watt m	11.00		
		8	200 watt m	15.00		
		6	200 watt orn. m	24.00		
		1	500 watt m	53.00		
		1	1,000 watt m	60.00		
Smiths Falls....	7,623	18	60 watt m	9.50	8,172.40	1.07
		104	100 watt m	18.00		
		1	200 watt m	25.00		
		256	300 watt m	25.00		
Southampton..	1,255	116	100 watt m	13.00	2,319.96	1.85
		32	250 watt m	21.00		
		39	60 watt (3 mos.) m	12.00		
		1	Decorative string m	36.00		

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STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps		Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
					\$ c.	\$ c.	\$ c.
Springfield.....	365	53	100 watt	<i>m</i>	11.00	569.28	1.56
Stamford Twp.....		858	100 watt	<i>m</i>	9.00	7,722.00	**
Stayner.....	999	{ 80 20	100 c.p. 200 watt	<i>s</i> <i>m</i>	12.00 18.00	1,320.00	1.32
Stirling.....	935	{ 77 30 2 15	100 c.p. 150 watt 300 watt 500 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i>	10.00 10.00 24.75 32.50	1,607.70	1.72
Stouffville.....	1,155	126	100 watt	<i>m</i>	12.00	1,512.00	1.31
Stratford.....	17,555	{ 871 74 116 6 63 4 4	100 c.p. 600 c.p. 600 c.p. 600 c.p. 1,000 c.p. 100 watt 500 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i>	10.00 25.00 30.00 35.00 34.00 10.00 34.00	16,567.92	0.94
Strathroy.....	2,911	{ 300 21 17	100 c.p. 250 c.p. 600 watt	<i>s</i> <i>s</i> <i>m</i>	9.00 15.00 62.00	4,053.96	1.39
Streetsville.....	636	{ 42 28 13	100 watt 200 watt 300 watt	<i>m</i> <i>m</i> <i>m</i>	9.50 11.50 16.50	935.50	1.47
Sudbury.....	24,440	{ 738 49 10 42 10 43 49 45	100 c.p. 250 c.p. 600 c.p. 600 c.p. stand's 1,000 c.p. 1,000 c.p. stand's 1,000 c.p. 1,500 c.p.	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i>	12.00 16.00 28.00 50.00 35.00 57.00 65.00 65.00	20,419.55	0.84
Sunderland.....		{ 29 4	100 watt 500 watt	<i>m</i> <i>m</i>	20.00 35.00	720.00	**
Sutton.....	831	{ 119 20 38	100 watt 200 watt Decorative strings (3 mos.)	<i>m</i> <i>m</i> <i>m</i>	13.00 17.00 13.00	2,010.50	2.42
Tara.....	471	{ 51 16	100 watt 300 watt	<i>m</i> <i>m</i>	14.00 36.00	1,332.00	2.83
Tavistock.....	1,034	{ 83 39	100 watt 200 watt	<i>m</i> <i>m</i>	10.00 12.00	1,293.84	1.25
Tecumseh.....	2,432	{ 18 59	400 c.p. 100 watt	<i>s</i> <i>m</i>	24.00 14.00	1,281.20	††
Teeswater.....	837	{ 42 20 80	150 c.p. 300 c.p. 25 watt (7 mos.)	<i>s</i> <i>s</i> <i>m</i>	15.00 29.00 66c. per 100 w. per month	1,293.16	1.54

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STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
Thamesford.....		48	100 watt <i>m</i>	\$ c. 11.00	\$ c. 522.50	\$ c. **
Thamesville....	788	{ 68	100 watt <i>m</i>	9.00	1,214.31	1.54
		{ 33	200 watt <i>m</i>	14.00		
		{ 7	200 watt <i>m</i>	18.00		
		{ 10	Decorative strings <i>m</i>	53c. per 100 W per month		
Thedford.....	585	69	100 watt <i>m</i>	15.00	1,035.00	1.77
Thorndale.....		32	100 watt <i>m</i>	12.00	384.00	**
Thornton.....		22	100 watt <i>m</i>	40.00	880.00	**
Thorold.....	4,959	{ 383	75 watt <i>m</i>	7.50	3,333.42	0.67
		{ 2	100 watt <i>m</i>	8.00		
		{ 35	200 watt <i>m</i>	12.00		
		{ 2	300 watt <i>m</i>	15.00		
Tilbury.....	1,992	{ 103	100 watt <i>m</i>	12.00	1,736.00	0.87
		{ 25	200 watt <i>m</i>	20.00		
Tillsonburg.....	3,702	{ 271	100 c.p. <i>s</i>	9.00	4,663.89	1.26
		{ 1	250 c.p. <i>s</i>	13.00		
		{ 8	300 watt <i>m</i>	32.00		
		{ 44	500 watt <i>m</i>	42.00		
		{ 1	Traffic light <i>m</i>	18.36		
		{ 46,411	100 watt <i>m</i>	8.00-10.00		
Toronto.....	645,462	{ 4,015	200 watt <i>m</i>	14.00-20.00	511,912.28	0.79
		{ 67	250 watt <i>m</i>	17.00		
		{ 1,423	300 watt <i>m</i>	20.00-25.00		
		{ 180	500 watt <i>m</i>	35.00-40.00		
		{ 5	1,000 watt <i>m</i>	70.00		
		{ 391	1-lt. stds. 300 w. <i>m</i>	40.00		
		{ 263	1-lt. stds., 500 w. <i>m</i>	47.50		
		{ 244	5-lt. stds., 100 w. <i>m</i>	47.50		
Toronto Twp....		{ 415	100 watt <i>m</i>	12.00	4,984.18	**
		{ 1	Intersection light <i>m</i>	43.20		
Tottenham.....	540	49	150 c.p. <i>s</i>	20.00	980.00	1.82
Trenton.....	6,440	{ 48	600 c.p. <i>s</i>	65.00	6,583.99	1.02
		{ 309	100 watt <i>m</i>	11.00		
		{ 1	500 watt <i>m</i>	65.00		
Tweed.....	1,311	131	100 c.p. <i>s</i>	15.00	1,906.23	1.45
Uxbridge.....	1,483	{ 132	100 watt <i>m</i>	12.00	1,720.00	1.16
		{ 6	100 watt (5 mos.) <i>m</i>	8.00		
		{ 1	200 watt <i>m</i>	16.00		
		{ 1	200 watt (5 mos.) <i>m</i>	12.00		
Victoria Harbor.	1,043	{ 3	300 watt <i>m</i>	20.00		
		{ 78	100 watt <i>m</i>	8.50	663.00	0.63
Walkerton.....	2,350	{ 118	150 c.p. <i>s</i>	14.00	2,707.00	1.15
		{ 39	250 c.p. <i>s</i>	24.50		
		{ 1	50 watt <i>m</i>	6.00		
		{ 8	100 watt <i>m</i>	14.00		

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STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				\$ c.	\$ c.	\$ c.
Wallaceburg....	4,660	{ 190 12 50	150 c.p. 400 c.p. 300 watt	<i>s</i> <i>s</i> <i>m</i>	12.00 22.00 33.00	4,194.00 0.90
Wardsville.....	249	36	75-100 watt	<i>m</i>	20.00	720.00 2.89
Warkworth.....		{ 39 2	100 watt 200 watt	<i>m</i> <i>m</i>	16.00 28.00	653.44 **
Waterdown.....	875	{ 75 8	100 watt 200 watt	<i>m</i> <i>m</i>	10.00 17.00	886.00 1.01
Waterford.....	1,250	{ 4 1 157 10 1	100 watt 100 watt (3 mos.) 100 watt 200 watt 500 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	12.00 12.00 8.00 15.00 25.00	1,488.00 1.19
Waterloo.....	8,266	{ 362 120 93 5 18 3 9 10 44	80 c.p. 100 c.p. 150 watt 200 watt 300 watt 500 watt 500 watt 300 watt 3lt. stds. 450 watt 5-lt. stds.	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	8.00 10.00 10.00 12.00 21.00 30.00 35.00 25.00 36.00	7,667.41 ††
Watford.....	941	{ 90 11	100 watt 200 watt	<i>m</i> <i>m</i>	12.50 20.00	1,344.96 1.43
Waubaushe.....		{ 46 10	100 watt 100 watt (5 mos.)	<i>m</i> <i>m</i>	9.00 5.00	464.00 **
Welland.....	10,540	{ 177 14 432 30 6 4 6	400 c.p. 400 c.p. park 100 watt 200 watt 300 watt 500 watt Empty sockets	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	30.00 30.00 11.00 18.00 30.00 28.00 18.00	11,000.25 ††
Wellesley.....		60	100 watt	<i>m</i>	11.00	660.00 **
Wellington.....	872	83	100 c.p.	<i>s</i>	12.00	996.00 1.14
West Lorne.....	769	{ 84 10	100 watt 200 watt	<i>m</i> <i>m</i>	10.00 18.00	1,020.00 1.33
Weston.....	5,028	{ 421 15 111 20 5 2	100 c.p. 100 c.p. 600 c.p. 300 watt 5 lt. stand's Municipal signs	<i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	7.50 9.50 30.00 11.00 21.00 110.00	7,265.67 1.45
Westport.....	720	{ 2 64	50 watt 100 watt	<i>m</i> <i>m</i>	15.00 20.00	1,310.00 1.82

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STATEMENT "C"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing
Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Popula- tion	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
Wheatley.....	724	{ 64 40	100 watt 150 watt	<i>m</i> <i>m</i>	\$ c. 13.00 16.00	\$ c. 1,472.00 2.03
Whitby.....	3,778	{ 123 73 165 3 3	80 c.p. 100 c.p. 100 watt 150 watt 500 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	11.00 12.00 9.50 10.00 15.00	4,051.56 1.07
Warton.....	1,766	{ 104 26	100 watt 200 watt	<i>m</i> <i>m</i>	16.00 28.00	2,362.35 1.34
Williamsburg.....		16	100 watt	<i>m</i>	15.00	240.00 **
Winchester.....	1,029	118	100 watt	<i>m</i>	8.00	944.00 0.92
Windermere.....	146	13	100 watt	<i>m</i>	30.00	390.00 2.67
Windsor.....	101,435	{ 956 99 47 2 2,454 1,039 699 149 1 2 1,509 195 200	100 c.p. 250 c.p. 400 c.p. 600 c.p. 100 c.p. orn. 250 c.p. orn. 400 c.p. orn. 100 watt 150 watt 200 watt 100 watt orn. 150 watt orn. 200 watt orn.	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	11.50 15.50 20.00 27.00 13.50 17.50 22.50 8.50 11.50 13.50 10.00 13.00 15.00	102,535.46 ††
Wingham.....	2,115	{ 104 25 30	150 c.p. 250 c.p. 200 watt	<i>s</i> <i>s</i> <i>m</i>	17.00 30.00 30.00	3,360.66 1.59
Woodbridge.....	763	{ 89 1	100 watt 500 watt	<i>m</i> <i>m</i>	10.00 35.00	989.90 1.30
Woodstock.....	11,040	{ 557 15 110 22 78 1	100 c.p. 250 c.p. 100 watt 150 watt 300 watt 250 watt floodlight (6 mos.)	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	8.00 20.00 8.00 12.00 32.00 12.00	8,391.48 0.76
Woodville.....	365	{ 33 2 5	100 watt 200 watt 500 watt	<i>m</i> <i>m</i> <i>m</i>	12.00 20.00 38.00	626.00 1.71
Wyoming.....	516	52	100 watt	<i>m</i>	15.00	780.00 1.51
Zurich.....		63	100 watt	<i>m</i>	11.00	693.00 **

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "D"

(pages 430 to 447)

**Statistics relating to the Supply of Electrical Energy to Consumers
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1937**

STATEMENT "E"

(pages 448 to 463)

**Cost of Power to Municipalities and Rates to Consumers for
Domestic Service—Commercial Light Service—Power Service
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1937**

STATEMENT "D"

**Statistics Relating to the Supply of Electrical Energy to
Consumers in Urban Municipalities Served by
The Hydro-Electric Power Commission**

Regarding the results of Hydro operation from the standpoint of the consumers, the following tabulation gives much useful and interesting information. For each main class of service in each urban municipal utility receiving power at cost from the Commission, Statement "D" lists the revenue, the consumption and the number of consumers, together with unit average costs and consumptions and other pertinent data.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or on account of the small quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D" respecting the average cost to the consumer. It will be observed that the total amount of the energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D", and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 40 horsepower. The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

It should be kept in mind that the revenues reported in Statement "D," and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and provide, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

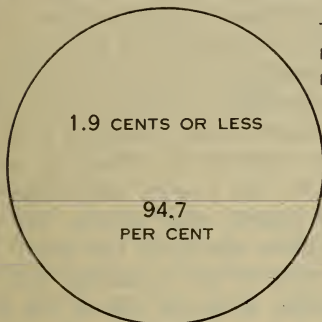
It should also be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give misleading results. The average costs per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE

IN MUNICIPALITIES SERVED BY
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY
THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE
IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS
INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



2.0 TO 3.9 CENTS

5.0
PER CENT



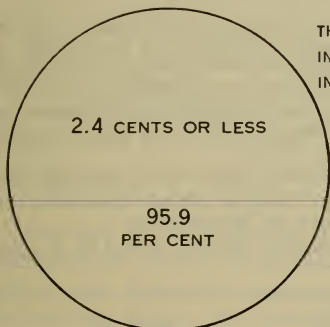
4.0 CENTS
OR MORE

0.3
PER CENT



COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY
THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE
IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS
INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



2.5 TO 4.9 CENTS

4.0
PER CENT



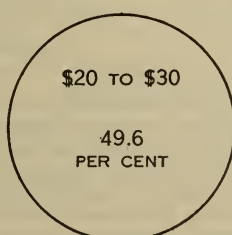
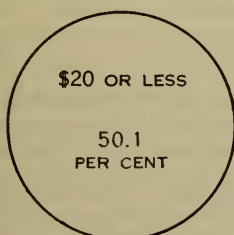
5.0 CENTS
OR MORE

0.1
PER CENT



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER
SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS
INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR:



\$30 OR MORE

0.3
PER CENT



With respect to domestic service, for example, instances may be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 100 per cent. Such variations are due principally to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours' use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour to the consumer, and *vice versa*.*

*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community a lower "average revenue per kilowatt-hour."

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	\$	kw-hr.	cents	\$
Residence.....	1,000,000	4	40,000	3,000,000	3	90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	....	130,000	10,000,000	....	142,500
Average revenue....	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent higher than in Case B, but the average revenue per kilowatt-hour is nearly 9 per cent less.

In this instance, the explanation lies in the relative quantities of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil a function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for making comparisons. In researches respecting rates to consumers therefore the actual *rate schedules* of Statement "E" should be employed, and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E," or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments from which service is received, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns (under 2,000 population), villages, and suburban areas in townships (which are comparable in respect of conditions of supply to the smaller towns and villages). The populations are also given, and the situation of any municipality with respect to transmission lines and power supplies may be ascertained by consulting the map at the end of the Report and the diagrams of stations in Section II.

A feature of the electrical service in Ontario municipalities served by The Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. There are in all more than 220 Ontario municipalities where the average annual consumption per domestic consumer is in excess of 600 kilowatt-hours. Of the 81 cities and towns with populations of 2,000 or more—in which over 85 per cent. of the domestic consumers of the undertaking are served—no less than 70 have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 32 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, and 14 have an average annual consumption per domestic consumer in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing service "at cost"; the rate schedules designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 1 cent and 1.25 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from \$2.00 to \$3.00 to obtain the benefit of a follow-up rate of 1.8 cents net. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario. Electric water heating is also encouraged by low flat rates for continuous heaters and by installation of equipment without capital cost to the consumer.

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group I—CITIES

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Belleville.....	E.O.	14,509	78,466.57	7,043,586	3,159	186	2.07	1.1
Brantford.....	Nia.	31,232	171,423.00	12,808,993	7,684	139	1.86	1.3
Chatham.....	Nia.	15,910	84,215.59	4,769,925	3,959	100	1.77	1.8
Fort William.....	T.B.	24,231	190,834.87	26,811,135	5,498	406	2.89	0.7
Galt.....	Nia.	14,119	87,306.24	5,730,026	3,715	129	1.96	1.5
Guelph.....	Nia.	21,455	105,593.83	8,832,291	5,226	141	1.68	1.2
Hamilton.....	Nia.	154,020	857,215.70	64,676,053	38,510	140	1.85	1.3
Kingston.....	E.O.	23,513	128,283.98	9,778,707	6,065	134	1.76	1.3
Kitchener.....	Nia.	32,650	193,802.89	14,333,718	7,464	160	2.16	1.4
London.....	Nia.	73,091	524,410.64	48,495,779	17,862	226	2.44	1.1
Niagara Falls.....	Nia.	18,747	138,864.47	10,866,449	4,442	204	2.61	1.3
Oshawa.....	E.O.	24,692	163,007.14	8,972,331	6,210	120	2.25	1.9
Ottawa.....	E.O.	141,903	495,646.48	54,895,050	13,463	340	3.07	0.9
Owen Sound.....	G.B.	13,100	60,404.54	3,903,079	3,301	99	1.52	1.5
Peterborough.....	E.O.	23,072	139,315.14	11,146,271	5,475	170	2.12	1.2
Port Arthur.....	T.B.	20,045	108,211.27	10,217,123	4,455	191	2.02	1.1
St. Catharines.....	Nia.	26,834	134,194.30	11,423,176	6,643	143	1.68	1.2
St. Thomas.....	Nia.	16,088	116,234.10	10,453,208	4,196	208	2.31	1.1
Sarnia.....	Nia.	18,230	97,459.51	5,810,543	4,658	104	1.74	1.7
Stratford.....	Nia.	17,555	141,205.43	9,409,825	4,247	185	2.77	1.5
Sudbury.....	N.P.	24,440	177,366.47	8,579,197	5,403	132	2.74	2.1
Toronto.....	Nia.	645,462	4,376,616.90	344,319,645	158,735	181	2.30	1.3
Toronto D.C. and 60 cycle†.....			19,959.90	673,165	444	126	3.75	3.0
Welland.....	Nia.	10,540	51,114.63	3,242,119	2,454	110	1.74	1.6
Windsor.....	Nia.	101,435	728,298.53	44,851,580	24,023	156	2.53	1.6
Woodstock.....	Nia.	11,040	70,367.03	5,639,582	3,052	154	1.92	1.2

†This—with the exception of a relatively small D.C. power load—is a special service not created by The Hydro-Electric Power Commission but acquired through the purchase of a privately owned company. It does not include street railway power.

Group II—TOWNS

Amherstburg.....	Nia.	2,879	19,802.82	1,240,208	638	162	2.59	1.6
Barrie.....	G.B.	8,126	53,213.32	3,612,929	2,058	146	2.15	1.5
Bowmanville.....	E.O.	3,611	27,388.72	1,315,762	1,123	98	2.03	2.1
Brampton.....	Nia.	5,568	38,658.02	2,947,443	1,435	171	2.24	1.3
Brockville.....	E.O.	9,903	47,633.58	3,595,101	2,752	109	1.44	1.3
Carleton Place.....	E.O.	4,275	18,701.91	1,000,299	987	84	1.58	1.9
Cobourg.....	E.O.	5,063	28,748.06	1,454,369	1,245	97	1.92	2.0
Collingwood.....	G.B.	5,498	26,253.86	1,382,185	1,310	88	1.67	1.9
Dundas.....	Nia.	4,757	21,741.85	1,241,100	1,224	84	1.48	1.8
Dunnville.....	Nia.	4,001	12,982.71	741,498	868	71	1.25	1.8

“D”

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1937

Population, 10,000 or more

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
50,519.55	3,397,516	719	394	5.86	1.5	43,251.73	96	2,634.4	3,974
71,003.69	7,019,246	1,116	524	5.24	1.0	*136,387.80	142	8,034.9	8,942
76,583.60	4,598,112	763	502	8.36	1.7	70,500.41	104	3,462.2	4,826
63,896.06	3,607,322	908	331	5.86	1.8	64,624.14	108	3,232.4	6,514
41,160.25	2,460,509	495	414	6.93	1.7	106,164.07	109	5,542.5	4,319
54,727.29	4,305,687	784	458	5.82	1.3	133,365.10	133	7,776.4	6,143
406,941.57	34,828,912	5,068	573	6.69	1.2	1,898,640.64	1,251	106,012.2	44,829
81,408.83	5,527,814	911	506	7.45	1.5	107,268.82	143	5,787.2	7,119
112,324.46	7,724,522	1,028	626	9.11	1.5	291,829.56	242	14,983.8	8,734
197,009.81	15,416,346	2,094	613	7.84	1.3	425,308.10	442	21,975.1	20,398
58,686.88	5,291,659	692	637	7.07	1.1	85,031.94	86	4,487.7	5,220
66,426.67	3,023,573	544	463	10.18	2.2	259,024.84	102	11,350.9	6,856
186,663.94	11,513,706	1,341	715	11.60	1.6	77,230.57	185	4,753.2	14,989
40,437.30	2,430,082	559	362	6.03	1.7	44,017.50	105	2,603.4	3,965
75,892.10	4,368,879	890	409	7.11	1.7	109,375.62	150	5,730.3	6,515
56,533.66	4,466,945	803	464	5.87	1.3	759,273.76	102	40,720.1	5,360
56,774.68	4,619,998	785	490	6.03	1.2	144,494.69	150	9,535.3	7,578
50,346.19	3,886,399	633	512	6.63	1.3	57,699.43	76	3,619.3	4,905
48,145.58	3,132,636	638	409	6.29	1.5	168,681.88	83	6,562.0	5,379
55,711.89	2,903,183	601	402	7.72	1.9	62,074.05	123	2,947.8	4,971
148,911.93	3,605,816	884	340	14.04	4.1	49,413.40	170	1,815.6	6,457
2,735,567.73	159,895,369	24,356	547	9.36	1.7	3,678,090.50	4,403	156,486.0	187,494
81,357.95	1,942,993	685	236	9.90	4.2	364,633.67	725	12,874.0	1,854
32,008.80	2,143,436	429	416	6.22	1.5	88,749.68	80	4,339.5	2,963
336,424.55	20,341,462	3,225	526	8.69	1.7	514,123.99	467	23,789.7	27,715
38,494.15	2,714,955	465	487	6.90	1.4	84,404.21	92	5,220.8	3,609

NOTE—The above group of 25 cities utilizes about 80 per cent of the power distributed by the Commission to Ontario municipalities.

*Includes only 25-cycle data. †Does not include street railway power.

of Population, 2,000 or more

6,564.65	326,765	123	221	4.45	2.0	5,649.37	14	219.7	775
33,130.63	1,899,040	427	371	6.47	1.7	20,218.72	47	1,111.9	2,532
9,790.57	423,636	157	225	5.20	2.3	51,512.75	29	1,866.0	1,309
18,320.83	1,114,047	241	385	6.33	1.6	20,030.11	51	1,264.5	1,727
24,901.86	1,772,240	449	329	4.62	1.4	37,327.01	72	2,173.5	3,273
9,784.30	404,959	195	173	4.18	2.4	28,456.06	18	1,311.3	1,200
18,295.68	798,044	294	226	5.19	2.3	26,541.29	50	1,290.9	1,589
10,895.43	505,012	200	210	4.54	2.2	14,471.95	52	958.5	1,562
11,483.73	714,118	184	323	5.20	1.6	24,093.13	36	1,571.5	1,444
13,450.21	794,216	214	309	5.24	1.7	12,894.70	25	704.3	1,107

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group II—TOWNS

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Elmira.....	Nia.	2,063	15,875.30	839,756	519	135	2.55	1.9
Fergus.....	Nia.	2,785	16,477.22	1,031,360	658	131	2.09	1.6
Georgetown.....	Nia.	2,189	16,686.99	1,076,744	733	122	1.90	1.5
Goderich.....	Nia.	4,336	31,779.40	1,532,176	1,211	105	2.19	2.1
Hanover.....	G.B.	3,061	19,287.56	977,354	740	110	2.17	2.0
Hespeler.....	Nia.	2,861	14,363.80	703,489	721	81	1.66	2.0
Humberstone.....	Nia.	2,563	9,755.55	442,959	595	62	1.37	2.2
Huntsville.....	G.B.	2,700	12,009.12	836,396	624	112	1.60	1.4
Ingersoll.....	Nia.	5,139	30,765.04	2,015,058	1,392	121	1.84	1.5
Kincardine.....	G.B.	2,468	15,184.34	511,680	660	65	1.92	3.0
Kingsville.....	Nia.	2,282	13,987.44	756,260	603	105	1.93	1.8
Leamington.....	Nia.	5,340	27,670.88	1,643,626	1,392	99	1.66	1.7
Lindsay.....	E.O.	7,116	38,663.58	2,308,719	1,938	99	1.66	1.7
Listowel.....	Nia.	2,819	16,676.74	937,300	747	105	1.86	1.8
Long Branch.....	Nia.	4,099	26,199.02	1,443,965	1,216	99	1.78	1.8
Meaford.....	G.B.	2,719	12,212.46	527,639	669	66	1.52	2.3
Merritton.....	Nia.	2,543	12,406.14	973,225	660	123	1.57	1.3
Midland.....	G.B.	6,690	34,945.51	2,206,293	1,593	115	1.83	1.6
Mimico.....	Nia.	6,876	55,221.42	3,905,467	1,786	182	2.58	1.4
Napanee.....	E.O.	3,061	23,278.78	1,350,199	807	139	2.40	1.7
New Toronto.....	Nia.	6,848	35,622.58	2,446,162	1,698	120	1.75	1.5
Orangeville.....	G.B.	2,479	15,451.31	749,673	677	92	1.90	2.1
Paris.....	Nia.	4,315	22,710.82	1,579,396	1,065	124	1.78	1.4
Penetanguishene.....	G.B.	4,061	12,000.68	513,637	609	70	1.64	2.3
Perth.....	E.O.	4,184	23,768.94	1,499,268	1,006	124	1.97	1.6
Petrolia.....	Nia.	2,720	11,925.93	550,649	732	63	1.36	2.2
Pictou.....	E.O.	3,481	22,070.90	1,241,556	983	105	1.87	1.8
Port Colborne.....	Nia.	6,196	30,818.31	1,495,820	1,403	89	1.83	2.1
Port Hope.....	E.O.	4,564	25,996.29	1,352,863	1,317	86	1.64	1.9
Prescott.....	E.O.	2,942	16,605.74	1,213,425	716	141	1.93	1.4
Preston.....	Nia.	6,294	31,589.53	2,149,651	1,492	120	1.76	1.5
Riverside.....	Nia.	5,017	37,453.23	1,703,534	1,273	112	2.45	2.2
St. Marys.....	Nia.	4,023	28,701.51	1,378,090	1,046	110	2.29	2.1
Simcoe.....	Nia.	5,614	24,500.24	1,410,840	1,380	85	1.48	1.7
Smiths Falls.....	E.O.	7,623	41,505.24	2,592,155	1,795	120	1.93	1.6
Strathroy.....	Nia.	2,911	19,901.80	1,377,957	811	142	2.04	1.4
Tecumseh.....	Nia.	2,432	12,005.71	414,438	548	63	1.83	2.9
Thorold.....	Nia.	4,959	18,414.32	1,157,032	1,123	86	1.37	1.6
Tillsonburg.....	Nia.	3,702	16,253.69	948,401	1,026	77	1.32	1.7
Trenton.....	E.O.	6,440	28,801.37	1,551,272	1,402	92	1.71	1.9
Walkerton.....	G.B.	2,350	14,331.48	768,352	587	109	2.03	1.9
Wallaceburg.....	Nia.	4,660	18,329.17	919,484	1,089	70	1.40	2.0
Waterloo.....	Nia.	8,266	60,290.09	4,973,620	1,933	214	2.60	1.2
Weston.....	Nia.	5,028	43,655.64	4,148,264	1,306	265	2.79	1.1
Whitby.....	E.O.	3,778	21,168.36	1,426,530	875	136	2.02	1.5
Wingham.....	G.B.	2,115	11,617.39	520,398	551	79	1.76	2.2

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1937

Population, 2,000 or more

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
7,180.66	271,189	117	193	5.11	2.6	6,328.78	21	334.1	657
7,369.46	237,860	110	180	5.58	3.1	15,193.71	14	669.5	782
7,037.67	333,404	129	215	4.55	2.1	24,030.85	28	1,118.2	890
16,415.78	713,048	238	250	5.75	2.3	12,898.11	20	571.4	1,469
7,294.28	342,465	138	207	4.40	2.1	19,500.45	24	796.2	902
5,776.09	308,101	100	257	4.81	1.9	40,482.38	29	1,836.6	850
3,397.69	202,473	67	252	4.23	1.7	4,001.56	5	145.2	667
9,274.75	610,147	135	377	5.73	1.5	13,798.57	12	848.8	771
16,358.91	1,054,494	237	371	5.75	1.6	29,430.87	43	1,656.6	1,672
8,289.83	258,992	122	177	5.66	3.2	11,616.94	19	506.9	801
6,721.15	315,701	150	175	3.73	2.1	4,328.98	14	203.9	767
15,459.66	818,288	257	265	5.01	1.9	22,117.66	28	1,151.2	1,677
26,091.06	1,224,340	333	306	6.53	2.1	29,541.09	74	1,528.0	2,345
9,938.00	477,359	151	263	5.48	2.1	13,540.50	21	658.3	919
6,077.43	373,053	97	321	5.22	1.6	2,707.21	5	131.2	1,318
7,503.21	330,624	145	190	4.31	2.3	8,280.58	18	405.0	832
2,698.68	174,167	66	220	3.41	1.5	110,483.89	11	5,329.2	737
15,596.03	884,618	217	340	5.99	1.8	51,646.97	55	3,812.6	1,865
10,331.68	603,678	142	354	6.06	1.7	11,420.68	20	463.3	1,948
14,092.20	598,211	194	257	6.05	2.4	11,145.81	33	594.5	1,034
16,386.04	1,210,288	197	512	6.93	1.4	141,624.32	32	6,405.2	1,927
9,747.88	462,367	159	242	5.11	2.1	6,559.13	25	357.2	861
8,250.89	528,756	182	242	3.78	1.6	14,356.59	23	816.0	1,270
7,029.69	308,569	108	238	5.42	2.3	17,063.49	28	703.1	745
14,592.83	697,622	200	291	6.08	2.1	15,468.80	25	804.3	1,231
7,358.74	299,083	170	147	3.61	2.5	23,866.59	76	822.3	978
14,876.86	741,216	196	315	6.33	2.0	6,313.53	34	438.2	1,213
15,409.68	903,520	239	315	5.37	1.7	19,462.22	24	744.0	1,666
12,752.36	548,947	206	222	5.16	2.3	30,295.58	39	1,285.3	1,562
9,309.35	518,496	163	265	4.76	1.8	5,020.60	19	321.3	898
17,798.68	957,330	221	361	6.71	1.9	42,899.95	42	2,410.4	1,755
4,125.62	175,297	64	228	5.37	2.4	5,453.44	8	191.5	1,345
10,925.18	454,931	182	208	5.00	2.4	23,708.81	39	883.1	1,267
26,383.82	1,838,311	347	442	6.34	1.4	30,087.24	40	1,303.0	1,767
15,340.97	819,664	271	252	4.72	1.9	24,499.48	44	1,158.5	2,110
10,751.16	560,413	169	276	5.30	1.9	13,724.36	28	818.6	1,008
3,991.48	147,789	49	251	6.79	2.7	2,276.07	3	99.5	600
6,576.86	520,550	160	271	3.43	1.3	36,985.64	17	2,027.2	1,300
14,600.61	838,810	226	309	5.38	1.7	11,439.81	31	669.6	1,283
18,913.19	903,848	262	287	6.02	2.1	64,156.42	49	2,649.3	1,713
8,353.81	347,436	136	213	5.12	2.4	6,859.89	17	315.2	740
11,074.08	549,147	244	188	3.78	2.0	52,647.04	32	1,926.6	1,365
24,173.09	1,436,318	253	473	7.96	1.7	34,246.93	74	2,044.0	2,260
9,620.43	718,795	184	326	4.36	1.3	49,610.23	30	2,342.6	1,520
11,123.21	544,260	161	282	5.76	2.0	15,917.63	20	613.5	1,056
7,294.82	292,061	146	167	4.16	2.5	10,254.02	24	398.8	721

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

NOTE—The power used in the smaller places and rural districts is, and possibly must always be, a relatively small proportion of the power distributed by the Commission. Thus, the power used by the small municipalities in the following group, which includes small towns, villages and certain suburban areas in townships, is less than 10 per cent of the power distributed by the Commission to Ontario municipalities. This relatively small proportion of the total power,

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Acton.....	Nia.	1,993	10,545.76	679,237	491	115	1.79	1.6
Agincourt.....	Nia.	P.V.	4,535.81	266,525	150	148	2.52	1.7
Ailsa Craig.....	Nia.	452	2,355.16	97,143	132	61	1.49	2.4
Alexandria.....	E.O.	1,926	7,415.81	164,781	330	42	1.87	4.5
Alliston.....	G.B.	1,320	9,502.26	311,438	332	78	2.39	3.1
Alvinston.....	Nia.	643	3,914.60	66,755	165	34	1.98	5.9
Ancaster Twp.....	Nia.	.....	9,060.25	483,220	289	139	2.61	1.9
Apple Hill.....	E.O.	P.V.	1,313.90	23,236	50	39	2.19	5.7
Arkona.....	Nia.	415	2,812.40	56,983	103	46	2.28	4.9
Arthur.....	G.B.	1,052	5,365.18	111,665	207	45	2.16	4.8
Athens.....	E.O.	669	3,204.97	76,051	170	37	1.57	4.2
Aylmer.....	Nia.	1,995	10,215.49	608,128	671	75	1.27	1.7
Ayr.....	Nia.	770	5,329.48	273,444	213	107	2.08	1.9
Baden.....	Nia.	P.V.	3,645.57	228,506	147	130	2.07	1.6
Bath.....	E.O.	318	1,481.71	33,472	38	73	3.25	4.4
Beachville.....	Nia.	P.V.	2,898.59	154,159	139	94	1.74	1.9
Beaverton.....	G.B.	976	6,461.14	336,894	329	85	1.64	1.9
Beeton.....	G.B.	605	3,396.24	71,963	122	49	2.32	4.7
Belle River.....	Nia.	748	4,017.94	140,470	227	52	1.48	2.9
Blenheim.....	Nia.	1,755	8,366.52	418,880	529	66	1.32	2.0
Bloomfield.....	E.O.	663	3,122.87	104,737	164	53	1.59	3.0
Blyth.....	Nia.	624	3,571.20	100,216	171	49	1.74	3.6
Bolton.....	Nia.	569	4,211.35	181,877	162	94	2.17	2.3
Bothwell.....	Nia.	642	2,509.90	118,620	176	56	1.19	2.1
Bradford.....	G.B.	989	6,549.61	202,508	231	73	2.36	3.2
Brantford Twp.....	Nia.	.....	21,288.76	1,158,906	910	106	1.95	1.8
Brechin.....	G.B.	P.V.	1,020.45	24,029	41	49	2.07	4.2
Bridgeport.....	Nia.	P.V.	4,052.99	159,680	147	90	2.30	2.5
Brigden.....	Nia.	P.V.	2,315.99	59,465	112	44	1.72	3.9
Brighton.....	E.O.	1,420	8,739.86	234,846	493	40	1.48	3.7
Brussels.....	Nia.	787	4,920.44	125,465	232	45	1.77	3.9
Burford.....	Nia.	P.V.	4,031.07	207,273	195	89	1.72	1.9
Burgessville.....	Nia.	P.V.	1,428.99	41,808	56	62	2.13	3.4
Caledonia.....	Nia.	1,370	5,795.42	252,649	390	54	1.24	2.3
Campbellville.....	Nia.	P.V.	1,415.96	32,853	46	60	2.57	4.3
Cannington.....	G.B.	761	5,161.71	193,111	250	64	1.72	2.7
Capreol.....	N.P.	1,745	9,060.17	176,697	302	49	2.50	5.1
Cardinal.....	E.O.	1,471	6,513.04	341,655	347	82	1.56	1.9
Cayuga.....	Nia.	674	3,572.78	110,515	149	62	2.00	3.2
Chatsworth.....	G.B.	321	1,907.08	54,665	85	54	1.87	3.5

“D”—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1937

VILLAGES AND SUBURBAN AREAS

however, exerts upon the economic life of the Province a most beneficial influence. It should further be appreciated that about 35 per cent of these municipalities obtain their power, not from Niagara, but from relatively small water-power developments throughout the Province. The net cost per kilowatt-hour given in the table is the cost inclusive of all charges. Consult also introduction to Statement “D”, page 430.

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
4,551.65	241,489	90	224	4.21	1.9	15,913.81	15	725.8	596
1,208.65	51,586	27	159	3.73	2.3	1,239.52	3	62.1	189
1,381.48	49,568	41	101	2.81	2.6	1,138.76	2	48.6	175
5,547.55	114,727	112	85	4.13	4.8	3,309.08	14	122.0	456
5,842.51	173,240	105	137	4.64	3.4	3,126.26	13	150.4	450
2,583.25	52,406	53	82	4.06	4.9	522.79	2	19.7	220
1,779.90	83,457	39	178	3.80	2.1	528.01	6	24.6	334
909.64	22,658	22	86	3.45	4.0	320.76	2	19.6	74
1,871.38	40,888	33	103	4.73	4.6	168.23	2	5.0	138
4,619.18	97,803	86	95	4.48	4.7	2,173.90	4	99.6	297
1,322.49	27,433	49	47	2.25	4.8	909.87	1	33.2	220
7,337.06	430,470	153	234	4.00	1.7	5,386.02	11	283.0	835
1,712.11	67,039	45	124	3.17	2.5	642.81	5	23.8	263
1,832.86	83,999	40	175	3.82	2.2	5,818.76	2	244.7	189
888.74	14,026	18	65	4.11	6.3	.....	.....	.....	56
680.13	26,686	23	96	2.47	2.6	11,386.18	4	451.4	166
2,448.87	130,352	67	162	3.05	1.9	1,272.77	8	74.1	404
2,312.20	50,097	38	110	5.07	4.6	1,705.52	4	75.3	164
1,923.25	76,702	45	142	3.56	2.5	1,034.27	2	27.6	274
6,489.23	364,135	125	243	4.33	1.8	4,182.86	11	179.5	665
1,557.88	53,382	31	144	4.19	2.9	837.47	6	33.6	201
1,779.49	49,509	55	75	2.70	3.6	463.20	3	32.6	229
1,197.17	31,821	40	66	2.49	3.8	1,987.72	10	95.6	212
1,331.58	61,750	52	96	2.16	2.2	779.84	7	77.5	235
3,691.24	81,992	65	105	4.73	4.5	3,407.07	10	185.9	306
4,292.84	249,352	49	424	7.30	1.7	3,108.53	5	142.0	964
1,075.55	25,512	26	82	3.45	4.2	899.16	3	36.5	70
866.81	28,030	18	130	4.01	3.0	270.94	3	10.5	168
2,041.32	58,656	45	109	3.78	3.5	674.99	5	26.1	162
4,041.09	131,483	97	113	3.47	3.1	2,377.49	11	127.5	601
2,744.06	82,806	66	105	3.46	3.3	742.66	3	25.9	301
1,090.39	60,596	29	174	3.13	1.8	967.17	2	44.0	226
582.14	14,935	15	83	3.23	3.9	222.02	2	13.5	73
3,893.27	228,119	91	209	3.57	1.7	1,645.56	6	68.8	487
472.38	14,894	9	138	4.38	3.2	.....	.....	.....	55
2,551.94	80,547	70	96	3.04	3.2	659.31	9	37.8	329
3,954.05	99,226	53	156	6.22	4.0	708.97	1	25.0	356
2,049.59	93,230	61	127	2.80	2.2	633.08	3	19.0	411
3,171.71	97,840	56	146	4.72	3.2	1,018.45	6	42.3	211
1,628.54	42,262	34	104	3.99	3.9	.....	.....	.....	119

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Chesley	G.B.	1,766	8,597.40	413,760	426	81	1.68	2.1
Chesterville	E.O.	1,067	5,153.14	246,048	237	87	1.81	2.1
Chippawa	Nia.	1,187	7,586.29	556,964	330	141	1.92	1.4
Clifford	Nia.	441	2,333.26	49,856	113	37	1.72	4.7
Clinton	Nia.	1,865	12,074.60	603,032	542	93	1.86	2.0
Cobden	E.O.	637	2,369.39	48,690	104	39	1.90	4.9
Colborne	E.O.	954	4,897.97	160,962	246	55	1.66	3.0
Coldwater	G.B.	589	2,912.71	155,508	143	91	1.70	1.9
Comber	Nia.	P.V.	2,109.09	69,766	101	58	1.74	3.0
Cookstown	G.B.	P.V.	2,172.60	41,883	102	34	1.78	5.2
Cottam	Nia.	P.V.	2,458.40	69,988	107	55	1.91	3.5
Courtright	Nia.	286	1,449.37	26,350	66	33	1.83	5.5
Creemore	G.B.	631	3,203.49	71,072	126	47	2.12	4.5
Dashwood	Nia.	P.V.	1,452.39	43,635	80	45	1.51	3.3
Delaware	Nia.	P.V.	1,515.27	82,675	59	117	2.14	1.8
Deseronto	E.O.	1,287	5,762.67	180,027	293	51	1.64	3.2
Dorchester	Nia.	P.V.	2,320.57	106,450	141	63	1.37	2.2
Drayton	Nia.	566	3,169.29	120,174	161	62	1.59	2.6
Dresden	Nia.	1,468	6,399.28	278,457	388	60	1.37	2.3
Drumbo	Nia.	P.V.	1,993.89	80,626	88	76	1.89	2.5
Dublin	Nia.	P.V.	1,482.23	28,268	50	47	2.47	5.2
Dundalk	G.B.	652	2,996.24	109,944	168	55	1.49	2.7
Durham	G.B.	1,816	6,580.18	288,403	442	54	1.24	2.3
Dutton	Nia.	776	3,146.13	171,910	212	68	1.24	1.8
East York Twp.	Nia.	.....	184,073.34	10,423,116	9,200	94	1.67	1.8
Elmvale	G.B.	P.V.	2,875.55	119,896	170	59	1.41	2.4
Elmwood	G.B.	P.V.	1,329.70	30,491	63	40	1.76	4.4
Elora	Nia.	1,138	7,406.09	333,228	326	85	1.89	2.2
Embro	Nia.	449	2,710.37	133,908	111	101	2.03	2.0
Erieau	Nia.	238	3,531.94	133,744	177	63	1.66	2.6
Erie Beach	Nia.	.....	1,625.66	31,139	79	33	1.71	5.2
Essex	Nia.	1,798	8,073.44	387,890	459	70	1.47	2.1
Etobicoke Twp.	Nia.	.....	128,521.51	9,792,284	3,975	206	2.69	1.3
Exeter	Nia.	1,629	10,529.15	606,131	458	110	1.92	1.7
Finch	E.O.	392	2,064.42	94,956	91	87	1.99	2.2
Flesherton	G.B.	446	2,441.82	68,932	145	40	1.40	3.5
Fonthill	Nia.	803	4,880.91	187,591	218	72	1.87	2.6
Forest	Nia.	1,586	10,694.50	487,777	458	89	1.95	2.2
Glencoe	Nia.	778	5,027.38	194,739	215	75	1.95	2.6
Grand Valley	G.B.	582	3,368.91	82,918	159	43	1.77	4.1

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1937

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
4,651.64	218,419	99	184	3.92	2.1	7,577.81	20	366.1	545
3,587.23	132,784	71	156	4.21	2.7	2,333.61	4	97.6	312
1,848.59	105,308	46	191	3.35	1.8	1,109.86	2	39.5	378
1,780.85	52,307	40	109	3.71	3.4	405.45	1	14.0	154
7,238.45	307,480	130	197	4.64	2.4	4,976.52	16	227.2	688
2,621.54	45,230	47	80	4.65	5.8	297.77	1	7.0	152
3,099.08	102,221	75	114	3.44	3.0	747.55	5	47.8	326
1,742.73	59,207	54	91	2.69	2.9	6,326.14	3	252.7	200
2,192.56	72,782	49	124	3.73	3.0	3,180.78	3	98.9	153
1,272.08	29,077	32	76	3.31	4.4	761.49	3	50.2	137
1,393.60	53,983	29	155	4.00	2.6	317.43	1	15.0	137
1,045.85	26,077	26	84	3.35	4.0	696.09	1	12.5	93
1,948.02	49,030	55	74	2.95	4.0	758.52	2	50.6	183
978.35	23,514	30	65	2.72	4.2	1,096.72	2	37.6	112
627.41	23,066	17	113	3.08	2.7	.....	.....	.....	76
2,189.38	53,320	67	66	2.72	4.1	1,913.87	7	72.0	367
864.04	34,184	29	98	2.49	2.5	261.87	2	22.1	172
2,091.01	58,538	67	73	2.60	3.6	956.93	5	53.0	233
5,294.68	265,530	118	188	3.74	2.0	3,671.88	10	169.2	516
827.87	28,228	27	87	2.56	2.9	547.67	1	22.9	116
795.62	17,442	19	76	3.49	4.6	612.35	2	27.4	71
2,771.10	93,769	73	107	3.16	3.0	2,597.99	5	145.6	246
4,758.40	205,532	107	160	3.70	2.3	3,980.39	12	210.8	561
2,485.81	114,980	65	147	3.19	2.2	3,081.68	9	154.4	286
27,377.69	1,567,312	391	334	5.83	1.7	41,585.54	37	1,774.4	9,628
1,720.57	76,375	58	110	2.47	2.3	2,776.35	8	132.5	236
696.71	15,191	23	55	2.52	4.6	1,255.75	1	42.4	87
3,974.83	154,215	73	176	4.54	2.6	2,598.27	2	125.6	401
1,441.98	41,520	46	75	2.61	3.5	1,083.73	1	36.6	158
1,351.69	37,349	14	222	8.05	3.6	507.07	2	19.3	193
336.77	11,312	3	314	9.35	3.0	.....	.....	.....	82
6,719.51	358,045	118	253	4.75	1.9	8,083.38	19	380.1	596
19,353.99	1,174,095	244	401	6.60	1.6	24,595.68	24	1,172.4	4,243
5,422.31	224,106	117	160	3.86	2.4	3,377.56	9	202.2	584
1,687.04	47,425	35	113	4.02	3.6	294.21	1	7.3	127
1,924.89	60,956	53	96	3.03	3.2	137.72	1	10.4	199
1,351.15	63,785	33	161	3.41	2.1	536.57	4	19.7	255
5,520.10	198,640	118	140	3.90	2.8	4,421.21	21	206.2	597
3,623.31	106,199	82	108	3.68	3.4	3,536.85	6	115.5	303
1,993.31	47,081	52	75	3.19	4.2	1,485.03	6	71.1	217

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Granton.....	Nia.	P.V.	1,824.58	81,086	83	81	1.83	2.3
Gravenhurst.....	G.B.	1,996	9,631.59	679,530	510	111	1.57	1.4
Hagersville.....	Nia.	1,345	5,378.01	277,165	350	66	1.28	1.9
Harriston.....	Nia.	1,273	6,982.79	268,516	350	64	1.66	2.6
Harrow.....	Nia.	918	8,241.52	495,352	269	153	2.55	1.7
Hastings.....	E.O.	811	4,165.09	109,366	195	47	1.78	3.8
Havelock.....	E.O.	1,208	5,061.67	151,796	280	45	1.51	3.3
Hensall.....	Nia.	719	3,858.52	141,590	185	64	1.74	2.7
Highgate.....	Nia.	327	1,645.67	52,755	98	45	1.40	3.1
Holstein.....	G.B.	P.V.	969.26	12,068	52	19	1.55	8.0
Jarvis.....	Nia.	504	2,517.07	81,943	132	52	1.59	3.1
Kemptville.....	E.O.	1,178	7,306.20	283,120	340	70	1.79	2.6
Kirkfield.....	G.B.	P.V.	775.15	11,754	29	34	2.23	6.6
Lakefield.....	E.O.	1,337	6,105.64	229,744	316	61	1.61	2.7
Lambeth.....	Nia.	P.V.	3,123.19	180,239	123	122	2.12	1.7
Lanark.....	E.O.	623	3,227.61	78,595	176	37	1.53	4.1
Lancaster.....	E.O.	608	1,941.58	33,005	87	32	1.86	5.9
La Salle.....	Nia.	782	5,947.02	280,359	203	115	2.44	2.1
London Twp.....	Nia.	.....	11,640.13	887,466	386	192	2.51	1.3
Lucan.....	Nia.	613	4,228.76	185,295	175	88	2.01	2.3
Lucknow.....	G.B.	1,068	6,497.25	179,450	266	56	2.04	3.6
Lynden.....	Nia.	P.V.	2,131.47	78,592	88	74	2.02	2.7
Madoc.....	E.O.	1,253	4,662.12	154,392	278	46	1.40	3.0
Markdale.....	G.B.	802	3,468.41	141,815	210	56	1.38	2.4
Markham.....	Nia.	1,112	7,004.98	350,196	294	99	1.99	2.0
Marmora.....	E.O.	948	3,624.32	77,805	210	31	1.44	4.7
Martintown.....	E.O.	P.V.	887.29	20,214	41	41	1.80	4.4
Maxville.....	E.O.	741	3,699.61	68,707	145	40	2.13	5.4
Merlin.....	Nia.	P.V.	2,174.74	63,533	110	48	1.65	3.4
Mildmay.....	G.B.	750	2,942.72	109,651	153	60	1.60	2.7
Milton.....	Nia.	1,785	11,479.33	581,979	471	103	2.03	2.0
Milverton.....	Nia.	987	4,706.91	264,422	240	92	1.63	1.8
Mitchell.....	Nia.	1,577	11,433.69	664,764	449	123	2.12	1.7
Moorefield.....	Nia.	P.V.	1,149.27	20,118	60	28	1.60	5.7
Mt. Brydges.....	Nia.	P.V.	2,771.38	138,770	149	78	1.55	2.0
Mt. Forest.....	G.B.	1,815	8,578.31	425,250	473	75	1.51	2.0
Neustadt.....	G.B.	451	1,952.52	24,318	92	22	1.77	8.0
Newbury.....	Nia.	276	1,373.49	28,654	69	35	1.66	4.8
Newcastle*.....	E.O.	675	4,951.52	123,342	184	61	2.45	4.0
New Hamburg.....	Nia.	1,464	9,264.20	475,939	346	115	2.23	1.9

*Eleven months' revenue.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1937

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
1,015.75	42,066	34	103	2.49	2.4	395.85	1	20.1	118
7,358.44	458,064	129	296	4.75	1.6	10,745.44	16	422.5	655
5,076.34	268,687	114	196	3.71	1.9	14,088.48	14	686.4	478
4,685.95	175,261	105	139	3.72	2.7	5,439.80	13	250.7	468
4,283.21	197,365	76	216	4.70	2.2	4,227.28	5	180.3	350
2,013.42	39,933	51	65	3.29	5.0	250.87	4	16.6	250
2,479.56	58,797	64	77	3.23	4.2	2,409.10	3	88.8	347
2,095.92	66,486	60	92	2.91	3.2	2,733.90	13	123.5	258
875.56	26,880	35	64	2.08	3.3	1,069.62	6	54.7	139
565.10	8,619	19	38	2.48	6.6	125.41	1	7.5	72
1,793.25	71,405	43	138	3.48	2.5	3,580.21	4	131.8	179
4,932.15	203,546	86	197	4.78	2.4	5,184.57	6	205.1	432
1,194.57	22,980	19	101	5.24	5.2	.....	.....	.....	48
4,127.01	170,472	70	203	4.91	2.4	4,043.25	6	191.7	392
1,220.74	47,047	25	157	4.07	2.6	479.10	2	50.0	150
1,402.66	41,256	36	96	3.25	3.4	.....	.....	.....	212
1,671.50	32,580	35	78	3.98	5.1	.....	.....	.....	122
1,459.90	58,999	18	273	6.76	2.5	2,384.31	4	72.5	225
2,198.97	145,485	23	527	7.97	1.5	1,589.17	4	71.3	413
1,797.37	53,810	45	100	3.33	3.3	1,621.53	7	82.2	227
3,648.11	92,336	78	99	3.95	4.0	3,856.26	6	140.1	350
791.09	23,907	16	125	4.12	3.3	727.50	2	40.0	106
3,446.88	109,606	88	104	3.26	3.1	1,250.03	6	47.4	372
2,667.17	109,402	75	122	2.96	2.4	1,081.43	10	100.3	295
2,914.08	136,363	66	172	3.68	2.1	2,536.65	9	158.9	369
2,017.10	62,678	47	111	3.58	3.2	353.50	3	30.2	260
981.31	26,094	23	95	3.56	3.8	.....	.....	.....	64
2,787.64	57,943	47	103	4.94	4.8	.....	.....	.....	192
1,821.86	60,139	46	109	3.30	3.0	124.89	1	23.1	157
1,925.33	51,227	47	91	3.41	3.8	1,064.47	3	31.4	203
5,417.52	271,949	102	222	4.43	2.0	18,067.59	14	738.0	587
3,321.68	135,056	78	144	3.55	2.5	3,237.42	7	188.3	325
5,330.08	281,945	120	196	3.70	1.9	4,114.29	23	265.2	592
875.06	21,258	24	74	3.04	4.1	631.96	1	29.5	85
1,085.68	76,130	36	176	2.51	1.4	1,276.43	4	58.8	189
6,826.62	311,803	151	172	3.77	2.2	4,382.53	11	249.0	635
988.33	17,935	26	57	3.17	5.5	194.79	1	4.5	119
726.74	14,360	22	54	2.75	5.1	655.44	2	30.6	93
1,918.50	48,357	33	133	5.28	4.0	1,779.62	5	71.6	222
4,456.08	163,883	95	144	3.91	2.7	5,607.18	13	260.2	454

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Niagara-on-the-Lake.....	Nia.	1,563	14,688.37	1,089,153	508	179	2.41	1.3
Nipigon.....	T.B.	P.V.	3,223.05	117,882	175	56	1.53	2.7
North York Twp.....	Nia.	.....	126,532.62	6,772,966	3,650	155	2.89	1.9
Norwich.....	Nia.	1,174	7,843.37	473,410	369	107	1.77	1.7
Norwood.....	E.O.	753	4,455.06	147,073	227	54	1.64	3.0
Oil Springs.....	Nia.	472	1,418.80	61,082	82	62	1.44	2.3
Omeme.....	E.O.	579	2,652.68	78,185	149	44	1.48	3.4
Otterville.....	Nia.	P.V.	2,260.39	98,761	121	68	1.56	2.3
Paisley.....	G.B.	792	3,717.40	87,322	187	39	1.66	4.3
Palmerston.....	Nia.	1,410	9,114.90	502,905	388	108	1.96	1.8
Parkhill.....	Nia.	997	5,220.34	145,490	252	48	1.73	3.6
Plattsville.....	Nia.	P.V.	2,294.89	70,955	107	55	1.79	3.2
Point Edward.....	Nia.	1,252	5,521.54	226,232	285	66	1.61	2.4
Port Credit.....	Nia.	1,755	13,556.63	1,078,600	465	193	2.43	1.3
Port Dalhousie.....	Nia.	1,459	15,288.35	1,140,806	583	163	2.19	1.3
Port Dover.....	Nia.	1,665	7,396.51	368,897	593	52	1.04	2.0
Port Elgin.....	G.B.	1,267	8,015.23	394,869	432	76	1.55	2.0
Port McNicoll.....	G.B.	933	3,613.96	103,946	210	41	1.43	3.5
Port Perry.....	G.B.	1,124	6,474.32	250,852	311	67	1.73	2.6
Port Rowan.....	Nia.	666	3,028.09	70,411	114	52	2.21	4.3
Port Stanley.....	Nia.	741	12,146.45	767,871	642	100	1.58	1.6
Priceville.....	G.B.	P.V.	693.43	9,852	35	23	1.65	7.0
Princeton.....	Nia.	P.V.	2,089.72	86,356	83	87	2.10	2.4
Queenston.....	Nia.	P.V.	3,095.13	220,267	68	270	3.79	1.4
Richmond.....	E.O.	408	1,712.51	45,962	59	65	2.42	3.7
Richmond Hill.....	Nia.	1,268	7,650.23	530,705	339	130	1.88	1.4
Ridgetown.....	Nia.	1,983	8,720.96	496,409	566	73	1.28	1.8
Ripley.....	G.B.	442	3,268.67	63,133	126	42	2.16	5.2
Rockwood.....	Nia.	P.V.	3,345.01	156,856	159	82	1.75	2.1
Rodney.....	Nia.	724	3,236.34	124,865	217	48	1.24	2.6
Rosseau.....	G.B.	315	2,869.27	51,120	61	70	3.92	5.6
Russell.....	E.O.	P.V.	2,568.80	55,283	120	38	1.78	4.7
St. Clair Beach.....	Nia.	100	2,018.15	87,187	63	115	2.67	2.3
St. George.....	Nia.	P.V.	2,989.98	126,222	145	73	1.72	2.4
St. Jacobs.....	Nia.	P.V.	3,924.59	217,810	126	144	2.60	1.8
Scarboro Twp.....	Nia.	.....	98,727.59	5,393,001	4,769	96	1.73	1.8
Seaforth.....	Nia.	1,717	9,866.10	520,233	458	95	1.80	1.9
Shelburne.....	G.B.	1,114	5,776.33	203,394	263	64	1.83	2.8
Southampton.....	G.B.	1,255	8,176.98	363,444	448	68	1.52	2.2
Springfield.....	Nia.	365	1,687.20	56,112	97	48	1.45	3.0

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1937

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
4,609.71	250,761	84	249	4.57	1.8	2,373.02	9	91.5	601
2,884.02	132,137	53	208	4.53	2.2	693.45	2	38.9	230
20,123.64	756,795	274	230	6.12	2.7	34,956.15	39	1,101.4	3,963
3,804.03	182,870	87	175	3.64	2.1	1,948.67	6	192.4	462
2,301.50	48,177	64	63	3.00	4.8	697.11	2	24.8	293
1,339.37	49,428	32	129	3.49	2.7	6,903.98	33	181.9	147
1,659.53	64,760	46	117	3.01	2.6	2,471.01	6	113.3	201
1,963.82	77,741	46	141	3.56	2.5	411.34	5	15.5	171
2,821.46	84,264	53	132	4.44	3.3	993.15	4	32.7	244
4,743.86	221,131	92	200	4.30	2.1	5,980.93	12	290.3	492
3,476.02	93,643	75	104	3.86	3.7	727.54	3	29.0	330
995.46	34,401	24	119	3.46	2.9	1,221.96	1	47.3	132
2,130.53	64,370	45	119	3.95	3.3	29,981.87	9	1,179.2	339
5,640.43	357,120	83	359	5.66	1.6	4,061.90	7	141.9	555
2,606.38	185,708	48	322	4.52	1.4	5,398.92	13	311.5	644
4,486.83	222,740	117	159	3.19	2.0	5,417.54	14	244.5	724
4,991.92	209,630	101	173	4.12	2.4	3,789.14	8	204.7	541
799.61	26,010	25	87	2.66	3.1	.....	.....	.....	235
3,066.39	83,128	76	91	3.36	3.7	3,055.20	11	147.7	398
1,826.17	43,228	40	91	3.80	4.2	95.98	3	9.9	157
4,342.10	180,971	106	142	3.40	2.4	3,858.66	9	160.7	757
301.15	4,394	10	37	2.51	6.9	64.87	1	1.88	46
723.52	25,740	19	113	3.17	2.8	2,426.32	3	88.4	105
983.39	43,961	12	305	6.83	2.2	.....	.....	.....	80
1,550.52	48,373	28	144	4.61	3.2	.....	.....	.....	87
3,894.28	204,001	63	270	5.15	1.9	2,005.07	14	119.1	416
6,022.15	309,173	141	183	3.56	1.9	3,769.20	21	223.2	728
1,577.42	21,904	44	41	2.99	7.2	.....	.....	.....	170
1,096.30	46,543	35	111	2.61	2.4	425.41	2	15.7	196
2,586.76	83,237	75	92	2.87	3.1	2,222.51	6	96.6	298
995.67	12,441	20	52	4.15	8.0	.....	.....	.....	81
1,458.81	31,768	32	83	3.80	4.6	.....	.....	.....	152
1,768.86	54,830	6	761	24.56	3.2	310.39	1	9.2	70
1,294.80	48,579	36	112	3.00	2.7	2,638.11	3	102.4	184
1,612.86	61,927	28	184	4.80	2.6	3,752.18	7	151.4	161
20,175.87	1,041,013	373	232	4.43	1.9	23,616.92	38	889.3	5,180
5,767.01	299,894	118	212	4.07	1.9	4,515.02	14	344.9	590
3,887.41	138,848	81	143	4.00	2.8	2,530.90	14	170.0	358
3,367.26	115,016	82	117	3.42	2.9	3,981.67	12	150.7	542
778.95	21,807	30	61	2.16	3.6	1,019.55	3	39.8	130

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw.-hr.
			\$ c.	kw.-hr.		kw.-hr.	\$ c.	cents
Stamford Twp.	Nia.	.....	59,873.97	4,440,379	1,790	207	2.79	1.3
Stayner.	G.B.	999	4,632.97	218,766	264	69	1.46	2.1
Stirling.	E.O.	935	5,087.22	309,461	262	98	1.62	1.6
Stouffville.	Nia.	1,155	7,005.23	259,184	363	60	1.61	2.7
Streetsville.	Nia.	636	5,482.74	273,673	167	137	2.74	2.0
Sunderland.	G.B.	P.V.	2,545.12	63,198	115	46	1.84	4.0
Sutton.	Nia.	831	8,172.84	265,137	421	52	1.62	3.1
Tara.	G.B.	471	2,882.59	83,470	139	50	1.73	3.5
Tavistock.	Nia.	1,034	7,290.79	428,005	277	129	2.19	1.7
Teeswater.	G.B.	837	4,529.29	115,746	208	46	1.82	3.9
Thamesford.	Nia.	P.V.	2,734.77	166,067	129	107	1.77	1.6
Thamesville.	Nia.	788	3,688.76	174,895	229	64	1.34	2.1
Thedford.	Nia.	585	2,930.43	66,177	140	39	1.74	4.4
Thorndale.	Nia.	P.V.	1,582.25	42,507	69	51	1.91	3.7
Thornton.	G.B.	P.V.	1,380.15	19,962	60	28	1.92	6.9
Tilbury.	Nia.	1,992	6,965.79	372,786	446	70	1.30	1.9
Toronto Twp.	Nia.	.....	65,185.09	4,154,568	2,164	160	2.51	1.6
Tottenham.	G.B.	540	3,615.62	76,003	135	47	2.23	4.8
Trafalgar Twp. No. 1.	Nia.	.....	13,199.23	709,540	346	171	3.18	1.9
Trafalgar Twp. No. 2.	Nia.	.....	5,844.20	237,420	158	125	3.08	2.5
Tweed.	E.O.	1,311	5,860.09	169,234	287	49	1.70	3.5
Uxbridge.	G.B.	1,483	8,272.57	330,670	392	70	1.76	2.5
Victoria Harbor.	G.B.	1,043	3,024.48	105,281	192	46	1.31	2.9
Wardsville.	Nia.	249	1,093.87	18,370	50	31	1.82	6.0
Warkworth.	E.O.	P.V.	2,005.61	43,998	112	33	1.49	4.6
Waterdown.	Nia.	875	5,180.34	323,945	232	116	1.87	1.6
Waterford.	Nia.	1,250	5,803.89	334,970	325	86	1.49	1.7
Watford.	Nia.	941	6,534.84	303,750	271	93	2.01	2.2
Waubashene.	G.B.	P.V.	2,366.59	122,000	172	59	1.15	1.9
Wellesley.	Nia.	P.V.	2,525.99	79,218	128	52	1.64	3.2
Wellington.	E.O.	872	5,462.02	251,380	308	68	1.48	2.2
West Lorne.	Nia.	769	2,987.59	123,857	199	52	1.25	2.4
Westport.	E.O.	720	3,325.24	58,277	106	46	2.61	5.7
Wheatley.	Nia.	724	4,348.48	139,950	207	56	1.75	3.1
Warton.	G.B.	1,766	8,598.76	214,985	390	46	1.83	4.0
Williamsburg.	E.O.	P.V.	2,842.00	214,071	116	154	2.04	1.3
Winchester.	E.O.	1,029	6,237.79	364,029	286	106	1.82	1.7
Windermere.	G.B.	146	2,583.67	40,684	52	65	4.14	6.4
Woodbridge.	Nia.	763	6,384.73	356,991	258	115	2.06	1.8
Woodville.	G.B.	365	2,208.70	74,014	112	55	1.64	3.0
Wyoming.	Nia.	516	2,399.26	73,219	139	44	1.44	3.3
Zurich.	Nia.	P.V.	2,840.90	82,486	123	56	1.92	3.4

“D”—Concluded

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1937

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
9,119.87	603,378	135	372	5.63	1.5	15,206.36	18	805.3	1,943
3,260.10	126,514	88	120	3.09	2.6	1,900.26	10	148.6	362
3,356.80	139,227	84	138	3.33	2.4	1,711.56	10	76.1	356
3,231.37	116,440	86	113	3.13	2.8	942.73	5	52.2	454
553.54	25,455	43	148	3.04	2.2	3,377.55	4	103.7	214
1,833.00	46,714	45	87	3.39	3.9	211.63	2	12.5	162
3,736.21	126,310	84	125	3.71	3.0	1,040.76	3	29.6	508
1,609.30	54,200	40	113	3.35	3.0	984.27	4	37.0	183
2,609.57	137,287	81	141	2.68	1.9	9,116.11	8	382.8	366
2,564.45	57,328	54	89	3.95	4.5	1,321.88	7	51.4	269
1,589.83	82,629	43	159	3.08	1.9	1,726.50	7	89.1	179
2,930.06	140,146	80	146	3.05	2.1	1,646.00	7	77.0	316
1,783.92	39,737	44	75	3.38	4.5	1,291.05	3	36.9	187
774.95	21,717	21	86	3.08	3.6	226.76	1	5.4	91
572.51	8,183	13	52	3.67	7.0	265.93	2	15.7	75
8,594.65	397,524	140	237	5.12	2.2	9,064.36	10	601.9	596
14,547.37	774,686	203	318	5.97	1.9	10,442.96	27	491.5	2,394
2,186.30	35,154	52	56	3.50	6.2	422.26	6	17.2	193
629.32	23,265	2	969	26.22	2.7	634.35	9	29.8	357
4,442.86	89,747	97	77	3.82	5.0	3,088.08	11	127.5	395
4,200.50	124,546	97	107	3.61	3.4	878.98	10	65.8	499
879.83	33,506	21	133	3.49	2.6	137.01	2	4.5	215
1,308.25	28,303	26	91	4.19	4.6	.....	.....	.....	76
1,699.61	42,729	47	76	3.01	4.0	.....	.....	.....	159
1,711.88	99,227	35	236	4.08	1.7	1,330.12	6	82.3	273
2,305.24	147,570	72	171	2.67	1.6	4,187.04	11	250.0	408
2,929.90	106,433	74	120	3.30	2.8	3,888.14	5	137.9	350
595.48	27,630	23	100	2.16	2.2	525.50	4	15.0	199
1,466.52	37,414	47	66	2.60	3.9	1,413.22	5	57.0	180
2,195.91	78,959	65	101	2.82	2.8	2,210.79	6	83.0	379
1,568.72	64,541	53	101	2.47	2.4	1,849.31	10	92.9	262
2,988.62	62,851	49	107	5.08	4.8	.....	.....	.....	155
2,961.65	101,652	70	121	3.53	2.9	1,880.86	4	74.0	281
7,243.71	201,892	116	145	5.20	3.6	4,762.38	16	178.6	522
4,778.22	283,987	60	394	6.64	1.7	165.66	1	13.6	177
3,407.54	158,283	76	174	3.74	2.2	1,506.59	3	64.6	365
1,166.51	24,117	12	167	8.10	4.8	.....	.....	.....	64
1,750.65	65,101	49	111	2.98	2.7	4,951.92	7	240.7	314
1,181.66	31,814	32	83	3.08	3.7	525.82	2	33.6	146
1,445.79	37,304	47	66	2.56	3.9	393.46	3	21.0	189
2,271.57	51,436	47	91	4.03	4.4	.....	.....	.....	170

STATEMENT "E"

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Ontario Urban Municipalities Served by The Hydro-Electric Power Commission For the Year 1937

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through The Hydro-Electric Power Commission.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, an important factor in determining rates to consumers, is also stated.

Cost of Power to Municipalities

The figures in the first column represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the several systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission,"† in accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

At the commencement of its operations, the Commission introduced scientifically-designed rate schedules for each of the three main classes into which the electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

*Except townships served as parts of rural power districts, for which consult latter part of Section III.

†R.S.O. 1937, Ch. 62, Sec. 89.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

During the past two or three years most of the urban municipal utilities have further simplified the domestic rate structure by abolishing the service charge, and making a suitable adjustment in the first consumption rate. Where the service charge is retained at 33 and 66 cents gross per month the charge of 33 cents per month per service is made when the permanently installed appliance load is under 2,000 watts, and the charge of 66 cents per month when 2,000 watts or more.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Water-Heater Service: For all consumers using continuous electric water heaters, low flat rates are available consisting of a fixed charge per month dependent on the capacity of the heating element and the cost of power to the municipal utility. Such heaters are so connected that the electrical energy they consume is not metered. For new installations the necessary equipment, including heater, thermostat, efficient insulation for water-storage tank, and wiring, is installed by The Hydro-Electric Power Commission of Ontario without capital cost to the consumer or to the municipal electric utility.†

Power Service: The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The average amount of power sold, per consumer, under these rates is approximately 40 horsepower—consult Statement "D". The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where load conditions and other circumstances permit, lower rates are available for 10-hour power, and for other forms of restricted service. For these classifications, discounts additional to those listed in the table are applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours' monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

†In addition, the Commission supplies booster water-heating equipment to furnish extra requirements beyond the capacity of the continuous heater; current for the booster heater is measured and charged for at the regular rates.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1937, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Acton.....	28.45	.....	60	2.6	1	0.83	10
Agincourt.....	33.30	.....	60	3.6	1.2	1.11	10
Ailsa Craig.....	41.61	.....	60	3.2	1	0.83	10
Alexandria.....T	52.74	.....	60	5.5	1.5	1.11	10
Alliston.....	47.27	.....	40	5.3	1.5	1.39	10
Alvinston.....	63.83	.....	60	5.5	1.5	1.94	10
Amherstburg.....T	30.44	.....	60	3.5	1	0.83	10
Ancaster twp.....	28.22	.....	60	3.8	1.3	0.83	10
Apple Hill.....	45.06	.....	60	6	2	1.66	10
Arkona.....	63.98	.....	60	6	1.8	1.94	10
Arthur.....	63.14	33-66	40	6	2	1.67	10
Athens.....	43.23	33-66	50	4.5	1.5	1.11	10
Aylmer.....T	29.47	.....	60	2.4	0.9	0.83	10
Ayr.....	28.63	.....	60	3.4	1.1	1.11	10
Baden.....	28.60	33-66	60	2	1	0.83	10
Barrie.....T	31.28	.....	60	2.7	1	0.83	10
Bath.....	61.55	33-66	40	6	2	3.33	10
Beachville.....	27.79	.....	60	3.1	1.1	0.83	10
Beaverton.....	38.73	.....	60	2.8	1	1.11	10
Beeton.....	63.37	.....	40	6	2	1.67	10
Belle River.....	32.53	.....	60	3.8	1.1	1.11	10
Belleville.....C	29.05	.....	55	2.4	0.8	0.83	10 & 10
Blenheim.....	32.47	.....	60	2.6	0.9	0.83	10
Bloomfield.....	51.83	.....	50	3.4	1.3	1.11	10
Blyth.....	44.29	33-66	50	3.6	1.2	1.39	10
Bolton.....	34.07	.....	55	3.9	1.5	1.11	10
Bothwell.....	38.07	.....	60	2.5	0.9	0.83	10
Bowmanville.....T	31.55	.....	60	3.5	1.2	0.83	10
Bradford.....	51.39	.....	40	5.5	1.5	1.67	10
Brampton.....T	26.05	.....	60	2.3	1	0.83	10
Brantford.....C	24.18	.....	60	2.3	0.9	0.83	10
Brantford twp.....	27.40	.....	60	2.9	1	1.11	10
Brechin.....	50.03	.....	45	5.5	1.2	1.67	10
Bridgeport.....	30.23	33-66	50	4	1.3	1.11	10
Bridgen.....	56.57	.....	60	4.2	1	1.39	10
Brighton.....	33.67	.....	60	4.2	1.2	1.11	10
Brockville.....T	27.33	.....	60	1.8	0.8	0.83	10
Brussels.....	41.48	.....	50	4.2	1.2	1.39	10
Burford.....	28.94	.....	60	2.9	0.9	0.83	10
Burgessville.....	50.93	.....	60	5	1.5	1.39	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

“E”

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All-addi-tional per kw-hr.	Mini-mum gross monthly bill	Prompt pay-ment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All-addi-tional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt pay-ment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	1.8	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	3.2	0.7	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	..	10
5	2.5	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	..	10
5	4.8	0.8	1.66	10	38.00	1.00	4	2.6	0.33	.....	..	10
5	4.3	1	1.39	10	32.00	1.00	3.1	2	0.33	.....	..	10
5	5.5	1	1.94	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	2.6	0.6	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	3	0.7	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	5.5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	6	1	1.94	10	53.00	1.00	6.2	4.1	0.33	.....	.....	10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	4.5	1	1.11	10	42.00	1.00	4.6	3	0.33	.....	.....	10
5	1.9	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2.5	0.7	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	2.2	0.7	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.1	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	6	1	3.33	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2.6	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2	0.8	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	5.5	1	1.67	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2.8	0.7	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	1.8	0.4	0.83	10 & 10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5	2	0.6	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	3.4	1	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3.4	1	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	2	0.6	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2.6	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	4.6	1	1.67	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	1.8	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
†5	1.6	0.35	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	2.3	0.6	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	4.8	0.8	1.67	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	4	0.7	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3.5	1	1.39	10	44.00	1.00	4.8	3.2	0.33	.....	.....	10
5	3.6	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
4.5	1.6	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5	3.5	1	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	2	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	4.5	1	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10

†Min. 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1937, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Caledonia.....	26.54	.....	60	2.7	0.9	0.83	10
Campbellville.....	51.16	.....	45	6	2	2.22	10
Cannington.....	39.58	.....	55	3.6	1.5	1.11	10
Cardinal.....	30.29	.....	55	2.5	1.1	1.11	10
Carleton Place.....T	29.08	.....	55	2.8	1	0.83	10
Cayuga.....	39.80	.....	60	4.4	1.5	1.39	10
Chatham.....C	26.50	.....	60	3	1	0.83	10
Chatsworth.....	37.94	33-66	45	4	1.5	1.67	10
Chesley.....	34.37	.....	55	3	1.2	1.11	10
Chesterville.....	33.68	.....	55	2.6	1.2	0.83	10
Chippawa.....	21.40	.....	60	2.8	0.9	1.11	10
Clifford.....	47.69	33-66	50	4.4	1.5	1.39	10
Clinton.....	33.00	.....	60	3	1.3	1.11	10
Cobden.....	62.45	.....	30	5	1.5	1.66	10
Cobourg.....T	31.96	.....	55	3.4	1.2	0.83	10
Colborne.....	33.73	.....	60	4.1	1.2	0.83	10
Coldwater.....	32.83	33-66	55	2.5	1	1.11	10
Collingwood.....	35.88	.....	55	3	1	0.83	10
Comber.....	38.07	.....	60	4	1	1.11	10
Cookstown.....	47.08	.....	40	5.7	1.2	1.67	10
Cottam.....	38.78	.....	60	4	1.1	1.39	10
Courtright.....	62.86	.....	55	6	1.5	1.95	10
Creemore.....	50.06	.....	45	4.5	1.2	1.66	10
Dashwood.....	40.16	.....	60	4.2	1.2	1.11	10
Delaware.....	31.00	.....	60	3.5	1.2	1.11	10
Deseronto.....	45.05	.....	50	4.8	1.2	0.83	10
Dorchester.....	34.26	.....	60	3	1.1	0.83	10
Drayton.....	48.42	.....	55	4	1.3	1.11	10
Dresden.....	35.76	.....	60	2.7	0.9	1.11	10
Drumbo.....	33.38	.....	60	4	1.1	1.11	10
Dublin.....	53.29	33-66	60	6	1.5	1.67	10
Dundalk.....	37.54	.....	55	3.5	1.1	1.11	10
Dundas.....T	22.87	.....	60	2.5	0.9	0.83	10
Dunnville.....T	26.01	.....	60	2.4	0.8	0.83	10
Durham.....	40.06	.....	55	2.7	1.2	0.83	10
Dutton.....	31.99	.....	60	2.3	0.9	0.83	10
East York.....	28.60	.....	60	2.5	1.1	0.83	10
Elmira.....T	29.14	.....	60	3.9	1	0.83	10
Elmvale.....	37.49	.....	55	3.4	1.2	0.83	10
Elmwood.....	39.98	.....	45	5.7	1.5	1.39	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	5.8	1	2.22	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.8	1	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	2.3	1	1.11	10	32.00	1.00	3.1	2	0.33	Min. 2.78	.....	10
5	2.2	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4	1	1.39	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	2.3	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	4	1	1.67	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	2.5	0.8	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.6	1	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2	0.6	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	4.4	1	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	2.4	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	4.5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.7	1	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	3.1	1	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	2.5	1	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2.5	0.8	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5	3.2	1	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	4.5	1	1.67	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3.2	1	1.39	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	5.5	1	1.95	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3.5	1	1.66	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	4	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.8	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.2	1	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	3.4	0.7	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	2	0.6	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	3	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	6	1	1.67	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	2.7	1	1.11	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	1.9	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5	2	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	2.3	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	1.9	0.5	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	2.0	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5	3	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.4	1	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	4.5	1	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1937, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Elora.....	31.07	.....	60	3.1	1.3	1.11	10
Embro.....	35.89	.....	60	3.4	1.2	1.39	10
Erieau.....	41.80	.....	60	3.8	1.1	1.39	10
Erie Beach.....	47.72	.....	60	5.3	1.5	1.67	10
Essex.....	30.30	.....	60	2.8	1	0.83	10
Etobicoke Twp.....	24.16	.....	60	2.7	1.1	0.83	10
Exeter.....	33.20	.....	60	3.2	1	0.83	10
Fergus.....	29.22	.....	55	3.3	1.3	1.11	10
Finch.....	41.82	.....	45	3	1.2	1.66	10
Flesherton.....	44.21	.....	55	3.5	1.2	1.11	10
Fonthill.....	27.69	.....	60	3.5	1.2	1.39	10
Forest.....	39.03	.....	60	3.6	1	1.11	10
Forest Hill.....	.....	33-66	60	2	1.3	0.83	10
Fort William.... C	21.45	.....	60	2.3	0.9	0.83	10
Galt..... C	24.61	.....	60	2.8	0.8	0.83	10
Gamebridge.....	.....	.....	45	5.5	1.2	1.67	10
Georgetown..... T	30.21	.....	60	3	0.9	0.83	10
Glencoe.....	44.52	.....	60	4.2	1	1.11	10
Glen Williams.....	.....	33-66	60	2.7	1.3	0.83	10
Goderich..... T	36.76	.....	55	3.5	1.2	0.83	10
Grand Valley.....	50.36	.....	45	5.2	1.5	1.39	10
Granton.....	42.12	.....	60	3.3	1.2	1.11	10
Gravenhurst.....	23.36	.....	55	2.2	0.9	0.83	10
Guelph..... C	24.22	.....	60	2	0.8	0.83	10
Hagersville.....	28.15	33-66	60	2	1	0.83	10
Hamilton..... C	21.73	.....	60	2.4	0.8	0.83	10
Hanover..... T	31.42	.....	60	3	1.5	0.83	10
Harriston.....	37.25	.....	55	3.5	1.1	1.11	10
Harrow.....	31.74	.....	60	3.5	1.1	0.83	10
Hastings.....	41.32	.....	45	5	1.5	1.39	10
Havelock.....	45.90	.....	50	4.5	1.5	0.83	10
Hensall.....	41.37	.....	60	3.8	1.1	1.11	10
Hespeler..... T	24.85	.....	60	3	0.9	0.83	10
Highgate.....	39.19	.....	60	3.4	1	1.11	10
Holstein.....	90.27	.....	40	5.5	1.5	1.67	10
Humberstone.....	25.18	.....	60	2.9	0.9	0.83	10
Huntsville..... T	27.49	.....	60	2.1	1	0.83	10
Ingersoll..... T	25.76	.....	60	2.5	1	0.83	10
Jarvis.....	33.83	.....	60	3.6	1	1.11	10
Kemptville.....	33.91	33-66	55	3	1.2	0.83	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2.8	0.7	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2.8	0.8	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	10	10
5	3.6	1	1.39	10	40.00	1.00	4.3	2.8	0.33	Min. 2.22	.....	10
5	5	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	10	10
5	2.1	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.3	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2.6	0.7	1.11	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.8	1	1.66	10	42.00	1.00	4.6	3	0.33	.....	10	10
5	2.8	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	10	10
5	2.8	0.7	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5	3.1	0.7	1.11	10	32.00	1.00	3.1	2	0.33	.....	10	10
5	2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2	0.6	0.83	10	.....	1.00	1.7	1.1	0.33	.....	25	10
5	2.3	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4.8	0.8	1.67	10	38.00	1.00	4	2.6	0.33	.....	10	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	3.3	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	10	10
5	2.8	0.75	0.83	10	34.00	1.00	3.4	2.2	0.33	.....	10	10
5	2.8	0.6	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	10	10
5	4.3	1	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	10	10
5	2.6	1	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	10	10
5	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	1.6	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
†5	1.6	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.8	0.9	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	10	10
5	2.6	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	10	10
5	4.5	1	1.39	10	37.00	1.00	3.8	2.5	0.33	.....	10	10
5	4	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	10	10
5	3.3	1	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	10	10
5	2.2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	3	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5	5	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	10	10
5	2	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	1.8	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	1.9	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	2.8	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	10	10
5	2.8	1	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	10	10

†Min. 500 watts.

‡Next 360 hours' use.

‡‡All additional.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1937, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City							
T—Town							
(pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Kincardine.....T	43.36	33-66	40	4	1.5	1.11	10
Kingston.....C	24.00-36.00	.....	50	2.2	0.8	0.83	10
Kingsville.....T	31.96	.....	60	3	1	0.83	10
Kirkfield.....	54.42	33-66	40	6	2	2.22	10
Kitchener.....C	23.82	.....	60	2.4	0.9	0.83	10
Lakefield.....	35.95	.....	50	3.6	1.5	0.83	10
Lambeth.....	34.94	.....	60	3.2	1.1	1.11	10
Lanark.....	39.13	33-66	50	4	1.5	0.83	10
Lancaster.....	61.78	.....	60	5.5	1.2	1.66	10
La Salle.....	32.26	.....	60	3.8	1.3	1.11	10
Leamington.....T	31.86	.....	60	2.6	0.9	0.83	10
Leaside.....	.....	a3	..	b1.8	1.5	0.83	10
Lindsay.....T	33.61	.....	60	2.5	1	0.83	10
Listowel.....T	31.07	.....	55	2.9	1.1	0.83	10
London.....C	23.54	.....	60	2.4	0.9	0.83	10
London Twp.....	27.65	.....	60	2.8	0.9	1.11	10
Long Branch.....	25.66	.....	60	2.7	1.1	0.83	10
Lucan.....	32.57	.....	60	3.4	1.2	1.11	10
Lucknow.....	50.33	33-66	45	4.2	1.5	1.67	10
Lynden.....	30.31	.....	60	3.6	1.2	1.39	10
Madoc.....	42.43	.....	50	3.2	1.2	0.83	10
Markdale.....	35.75	.....	55	3.3	1.1	1.11	10
Markham.....	32.11	.....	60	3.2	1	1.11	10
Marmora.....	38.20	.....	60	4.3	1.2	1.11	10
Martintown.....	45.37	.....	45	3.8	1.2	1.66	10
Maxville.....	47.31	.....	55	5.8	1.5	1.66	10
Meaford.....T	39.03	33-66	60	2.5	1.2	0.83	10
Merlin.....	38.07	.....	60	4.2	1	1.11	10
Merritton.....T	20.66	.....	60	2.4	0.9	0.83	10
Midland.....T	30.63	33-66	60	2	1	0.83	10
Mildmay.....	42.83	.....	40	3.8	1	1.39	10
Milton.....	28.94	.....	60	3.5	1.2	0.83	10
Milverton.....	30.83	.....	60	2.7	1.1	1.00	10
Mimico.....T	23.22	.....	60	2.7	1.1	0.83	10
Mitchell.....	29.44	.....	60	2.9	1.3	0.83	10
Moorefield.....	57.43	.....	50	5.1	1.5	1.39	10
Mount Brydges.....	35.02	.....	60	3.2	1	1.11	10
Mount Forest.....	43.60	.....	60	2.7	1.25	0.83	10
Napanee.....T	30.43	.....	50	3.5	1.2	0.83	10
Neustadt.....	58.65	33-66	60	6	2	1.67	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	3.8	1	1.11	10	28.00	1.00	2.5	1.6	0.33			10
5	1.6	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33		25	10
5	2.1	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33			10
5	6	1	2.22	10	40.00	1.00	4.3	2.8	0.33			10
5	1.9	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5	2.8	1	0.83	10	24.00	1.00	2.3	1.5	0.33		10	10
5	2.8	0.9	1.11	10	30.00	1.00	2.8	1.8	0.33			10
5	4	1	0.83	10	45.00	1.00	4.9	3.3	0.33			10
5	5.5	1	1.66	10	62.00	1.00	7.5	5	0.33			10
5	3.3	1	1.11	10	30.00	1.00	2.8	1.8	0.33			10
5	2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33		10	10
.....	c3 & 1	1/3	0.83	10	.....	d1.10 } 0.90 }	2	1	e1/3 } 1/6 }			10
5	2.2	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5	2.4	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33		10	10
5	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33		25	10
5	2.2	0.6	1.11	10	21.00	1.00	1.8	1.1	0.33		10	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33		10	10
5	3	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33			10
5	4.2	1	1.67	10	38.00	1.00	4	2.6	0.33			10
5	3	1	0.83	10	26.00	1.00	2.3	1.4	0.33			10
5	3	0.9	0.83	10	35.00	1.00	3.5	2.3	0.33			10
5	2.5	1	1.11	10	28.00	1.00	2.5	1.6	0.33			10
5	2.8	0.7	1.11	10	23.00	1.00	2.1	1.4	0.33		10	10
5	3.6	1	1.11	10	40.00	1.00	4.3	2.8	0.33			10
5	3.8	1	1.66	10	45.00	1.00	4.9	3.3	0.33			10
5	5.5	1	1.66	10	45.00	1.00	4.9	3.3	0.33			10
5	2.5	0.8	0.83	10	27.00	1.00	2.3	1.5	0.33			10
5	3.5	1	1.11	10	30.00	1.00	2.8	1.8	0.33	Min. 2.22		10
5	1.7	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33		25	10
5	2	1	0.83	10	17.00	1.00	1.7	1.1	0.33		25	10
5	3	0.8	1.39	10	35.00	1.00	3.5	2.3	0.33			10
5	2.6	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33		10	10
5	2.6	0.8	1.00	10	22.00	1.00	1.9	1.3	0.33		10	10
5	2	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
7	2.4	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
5	4.3	1	1.39	10	44.00	1.00	4.8	3.2	0.33			10
5	2.4	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33			10
5	2.2	0.9	0.83	10	28.00	1.00	2.5	1.6	0.33			10
5	2.8	0.75	0.83	10	19.00	1.00	2	1.4	0.33		25	10
5	6	1	1.67	10	40.00	1.00	4.3	2.8	0.33			10

aService charge per 100 sq. ft.

bPer kw-hr for first 3 kw-hrs. per 100 sq. ft.

cFirst 90 hours' use 3 cents per kw-hr.

Next 90 hrs' use 1 cent per kw-hr.

dFirst 7.5 kilowatts \$1.10 per kilowatt.

All additional, 90 cents per kilowatt.

e1/3 cent per kw-hr. next 300 hours—

All additional 1/6 cent per kw-hr.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1937, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Newbury.....	42.15	33-66	45	5	1.5	1.38	10
Newcastle.....	34.22	33-33	60	5	2	1.11	10
New Hamburg.....	28.81	.....	60	3.5	1.2	0.83	10
New Toronto.....T	25.41	.....	60	2.4	1	0.83	10
Niagara Falls.....C	19.15	.....	60	2.5	0.8	0.83	10
Niagara-on-the-Lake...	23.92	.....	60	2.8	1.1	0.83	10
Nipigon Twp.....	25.36	.....	55	3.5	1	1.39	10
North York Twp.....	27.96	.....	55	4	1.4	1.11	10
Norwich.....	29.74	.....	60	2.8	1	0.83	10
Norwood.....	36.67	.....	50	4.5	1.5	1.11	10
Oil Springs.....	36.91	.....	60	2.8	1	1.11	10
Omeme.....	.....	.....	60	3.5	1.3	0.83	10
Orangeville.....T	43.56	.....	55	3.3	1.1	1.11	10
Oshawa.....C	31.16	.....	50	3.8	1.1	0.83	10
Ottawa.....C	14.65	33-66	{ 60 60 }	{ 2 1 }	0.5	0.83	10
Otterville.....	37.36	.....	60	3	1	1.11	10
Owen Sound.....C	31.38	.....	60	2.2	1	0.83	10
Paisley.....	49.40	33-66	45	4.6	1.2	1.39	10
Palmerston.....	33.84	.....	60	2.9	1.1	1.11	10
Paris.....T	24.59	.....	60	2.3	0.9	0.83	10
Parkhill.....	49.45	.....	60	4.8	1.3	1.39	10
Penetanguishene.....T	34.64	.....	55	3.3	1.3	0.83	10
Perth.....T	28.39	.....	55	2.8	1	0.83	10
Peterborough.....C	27.19	.....	55	2.7	1.2	0.83	10
Petrolia.....T	34.26	.....	60	2.8	0.9	0.83	10
Picton.....T	41.45	.....	60	2.8	1	0.83	10
Plattsville.....	40.68	.....	60	4.2	1.2	1.11	10
Point Edward.....	32.19	.....	60	3.3	1.1	0.83	10
Port Arthur.....C	21.03	.....	50	2	0.8	0.83	10 & 10
Port Colborne.....T	24.91	.....	60	3	1	0.83	10
Port Credit.....	28.12	.....	60	2.5	1	0.83	10
Port Dalhousie.....	24.95	.....	60	2.6	1	0.83	10
Port Dover.....	30.44	.....	60	2.6	0.9	0.83	10
Port Elgin.....	40.64	33-66	40	2.5	1.2	1.11	10
Port Hope.....T	32.64	.....	60	2.7	1	0.83	10
Port McNicoll.....	36.38	33-66	50	3.5	1.5	0.83	10
Port Perry.....	44.87	.....	50	4	1.2	1.11	10
Port Rowan.....	37.20	.....	60	4.2	1.5	1.67	10
Port Stanley.....	32.41	.....	60	3.1	1	0.83	10
Prescott.....T	27.04	.....	60	2.3	1	0.83	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	5	1	1.38	10	49.00	1.00	5.6	3.7	0.33	.....	.....	10
5	5	2	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	1.6	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5	2.2	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	1	1.39	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3.3	0.7	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	2.4	0.7	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.5	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.2	1	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.8	0.8	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
.....	†5	0.5	0.83	10	20.00	1.00	1.8	1.2	0.15	.....	15	10
	†2.2											
5	2.6	0.6	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.8	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	4.6	1	1.39	10	42.00	1.00	4.6	3	0.33	.....	.....	10
5	2.4	0.9	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5	4.4	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.9	0.9	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	2.3	0.9	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2.1	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2	0.8	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	Min. 2.00	.....	10
5	2.4	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	1.8	0.3	0.83	10 & 10	17.00	1.00	1.7	1.1	†0.33	.....	25	10
									0.133	.....	
5	2.5	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	2.2	0.8	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	2.5	0.8	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2.4	0.8	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.2	1	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	3.8	1	1.67	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2.4	0.6	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.8	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10

†First 30 hours' use per kw-hr.

††Next 70 hours' use per kw-hr.

†0.33 cents per kw-hr for next 360 hours' use plus 0.133 cents per kw-hr for all additional.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1937, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Preston.....T	24.48	.....	60	2.6	0.8	0.83	10
Priceville.....	47.83	33-66	60	6	2	1.67	10
Princeton.....	37.31	.....	60	3.3	1.2	1.67	10
Queenston.....	25.47	.....	60	3	1.3	1.11	10
Richmond.....	45.88	.....	35	5.5	1.5	1.95	10
Richmond Hill.....	30.01	33-66	60	2	0.8	0.83	10
Ridgetown.....	32.06	.....	60	2.4	0.9	0.83	10
Ripley.....	67.61	33-66	55	6	1.5	1.67	10
Riverside.....T	30.38	.....	60	4	1.4	0.83	10
Rockwood.....	33.24	.....	60	3.3	1.1	1.11	10
Rodney.....	43.92	.....	60	3	1.1	0.83	10
Rosseau.....	85.96	133	..	6	2	12.22	10
Russell.....	48.10	.....	55	5.2	1.5	1.39	10
St. Catharines.....C	20.80	.....	45-60	2.2	0.8	0.83	10
St. Clair Beach.....	36.03	.....	60	4.2	1.3	1.67	10
St. George.....	31.85	.....	60	3.2	1.1	1.11	10
St. Jacobs.....	28.29	.....	60	3.2	1.2	1.11	10
St. Marys.....T	29.68	.....	60	3.8	1.1	0.83	10
St. Thomas.....C	24.28	.....	60	2.4	0.8	0.83	10
Sarnia.....C	29.07	.....	60	2.7	0.9	0.83	10
Scarboro Twp.....	26.88	.....	60	2.9	1.1	0.83	10
Seaforth.....	31.37	.....	60	2.9	1.1	0.83	10
Shelburne.....	41.62	.....	50	4.1	1.2	1.11	10
Simcoe.....T	25.36	.....	60	2.5	0.8	0.83	10
Smiths Falls.....T	26.25	.....	55	3.2	1	0.83	10
Southampton.....	39.88	33-66	40	3	1.5	1.11	10
Springfield.....	46.09	.....	60	3.6	1.1	1.11	10
Stamford Twp.....	19.57	.....	60	3.3	1.25	0.83	10
Stayner.....	37.91	.....	55	3	1.2	0.83	10
Stirling.....	28.20	.....	60	2.5	1	0.83	10
Stouffville.....	38.09	.....	60	3.4	1.1	1.11	10
Stratford.....C	25.80	.....	60	3	1	0.83	10
Strathroy.....T	27.50	.....	60	2.7	0.9	0.83	10
Streetsville.....	31.89	.....	55	4.4	1	0.83	10
Sunderland.....	55.84	.....	45	5	1.2	1.39	10
Sutton.....	41.10	.....	50	4.3	1.6	1.11	10
Swansea.....	28.86	33-66	60	2	1.3	0.83	10
Tara.....	39.73	33-66	40	4	1.8	1.11	10
Tavistock.....	30.31	33-66	60	2.5	1	0.83	10
Tecumseh.....T	34.53	.....	60	4	1.1	1.11	10
Teeswater.....	49.11	.....	50	5	1.5	1.39	10
Thamesford.....	31.31	.....	60	2.7	1	1.11	10
Thamesville.....	31.68	.....	60	2.7	1	0.83	10
Thedford.....	55.41	.....	55	5.4	1.5	1.39	10
Thorndale.....	49.96	.....	60	4.7	1.6	1.39	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2.1	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5	6	1	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3	1	1.67	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.8	1	1.11	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	5.5	1	1.95	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	2	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	1.9	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	0.7	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2.5	0.7	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	2.6	0.6	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	6	2	†2.22	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
5	4.5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
†5	1.5	1/3	0.83	10	14.00	1.00	1.1	0.7	\$0.33	.....	25	10
5	4.3	1	1.67	10	35.00	1.00	3.5	2.3	0.16}	.....	.....	10
5	2.7	0.6	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2.6	0.8	1.11	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.7	0.9	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	1.7	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5	2	0.4	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.2	0.5	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.2	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.7	1	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5	1.8	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	3	1	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	3	1	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	2.25	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2.3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2	1	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2.7	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2.1	0.5	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.6	0.7	0.83	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5	4.3	1	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.7	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	4	1	1.11	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	2.3	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	3.2	0.7	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	4	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.1	0.6	1.11	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.1	0.6	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	5	1	1.39	10	52.00	1.00	6	4	0.33	.....	.....	10
5	3.8	1	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10

†Min. 500 watts.

†According to consumers' demand.

\$0.33 cents per kw-hr for next 200 hours' use plus 0.16 cents per kw-hr for all additional.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for the Year 1937, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
Thornton.....	\$ c. 58.76	cents 33-66	60	6	2	1.67	10
Thorold.....T	21.77	.....	60	2.2	0.8	0.83	10
Tilbury.....	31.71	.....	60	2.4	0.8	0.83	10
Tillsonburg.....T	27.76	.....	60	2.3	0.9	0.83	10
Toronto.....C	23.42	a3	..	b1.8	1	0.83	10
Toronto Twp.....	28.42	.....	60	3	1.1	1.11	10
Tottenham.....	75.28	33-66	35	6	2	1.67	10
Trafalgar twp. Area 1..	26.81	.....	60	3.1	1.7	0.83	10
Trafalgar twp. Area 2..	28.54	.....	60	3.8	1.4	†2.22	10
Trenton.....T	25.49	.....	50	3	1	0.83	10
Tweed.....	48.46	.....	50	4.5	1.2	1.11	10
Uxbridge.....	46.65	.....	50	3.6	1.2	1.11	10
Victoria Harbour.....	39.14	.....	55	3.5	1.2	1.11	10
Walkerton.....T	31.65	.....	50	3.6	1.1	1.11	10
Wallaceburg.....T	30.59	.....	60	2.7	0.9	0.83	10
Wardsville.....	46.17	33-66	50	6	2	1.67	10
Warkworth.....	39.18	.....	50	4	1.2	1.11	10
Waterdown.....	26.24	.....	60	2.7	1	0.83	10
Waterford.....	27.00	.....	60	2.4	0.9	0.83	10
Waterloo.....T	24.24	.....	60	2.4	0.9	0.83	10
Watford.....	41.62	.....	60	3.5	1	1.11	10
Waukegan.....	37.52	.....	55	2.7	0.9	0.83	10
Welland.....C	20.11	.....	60	2.8	0.9	0.83	10
Wellesley.....	40.96	.....	50	4.8	1.3	1.11	10
Wellington.....	38.28	33-66	50	2.5	1.25	0.83	10
West Lorne.....	37.24	.....	60	3	0.9	0.83	10
Weston.....T	23.48	.....	60	2.4	0.9	0.83	10
Westport.....	56.48	33-66	35	6	2	2.50	10
Wheatley.....	42.05	.....	60	4	1.1	1.11	10
Whitby.....T	31.32	.....	60	2.8	1	0.83	10
Wiaraton.....	52.96	.....	40	4.5	1.5	1.39	10
Williamsburg.....	30.40	.....	60	2	0.8	0.83	10
Winchester.....	31.65	.....	60	2.4	1.2	0.83	10
Windermere.....	51.69	†33	..	6	2	†2.22	10
Windsor.....C	25.77	.....	60	3.3	0.9	0.83	10
Wingham.....	48.00	.....	50	3.5	1.3	1.11	10
Woodbridge.....	27.79	.....	60	3	1.1	0.83	10
Woodstock.....C	24.65	.....	60	2.4	0.8	0.83	10
Woodville.....	51.70	.....	50	3.8	1	1.11	10
Wyoming.....	44.15	.....	60	3.5	1	1.11	10
York Twp.....	.....	33-66	60	2	1.3	0.83	10
Zurich.....	49.57	.....	60	4.5	1.2	1.39	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

†According to consumers' demand.

aService charge per 100 sq. ft.

†Over 10 kilowatt.

bPer kw-hr for first 3 kw-hrs per 100 sq. ft.

“E”—Concluded
Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....		10
5	1.6	0.35	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5	1.8	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	1.8	0.4	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
.....	c 3 & 1	1/3	0.83	10	.....	d/D.C. {A.C.	3 2	1.2 1	0.60 e 1/3 1/6	.....		10
5	2.2	0.6	1.11	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
10	6	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....		10
5	2.8	0.7	0.83	10	28.00	1.00	2.5	1.6	0.33	.....		10
5	2.8	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	.....		10
5	2.6	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	3	0.9	1.11	10	28.00	1.00	2.5	1.6	0.33	.....		10
5	2.8	0.9	1.11	10	32.00	1.00	3.1	2	0.33	.....		10
5	2.4	0.9	1.11	10	28.00	1.00	2.5	1.6	0.33	.....		10
5	2.1	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....		10
5	3	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....		10
5	2.1	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	1.9	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	1.9	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33	.....		10
5	1.8	0.8	0.83	10	33.00	1.00	3.2	2.1	0.33	.....		10
5	2	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	3.8	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	2.5	1	0.83	10	36.00	1.00	3.7	2.4	0.33	.....		10
5	2.4	0.6	0.83	10	28.00	1.00	2.5	1.6	0.33	.....		10
5	1.6	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5	6	1	2.50	10	50.00	1.00	5.7	3.8	0.33	.....		10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....		10
5	2.3	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	4	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....		10
5	2	0.8	0.83	10	32.00	1.00	3.1	2	0.33	.....		10
5	2	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	.....		10
5	6	2	†2.22	10	50.00	1.00	5.7	3.8	0.33	.....		10
5	2.4	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	3	0.8	1.11	10	33.00	1.00	3.2	2.1	0.33	.....		10
5	2.4	0.6	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5	2.8	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....		10
5	3.2	0.9	1.11	10	36.00	1.00	3.7	2.4	0.33	.....		10
5	2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	4	1	1.39	10	45.00	1.00	4.9	3.3	0.33	Min. 2.77	.....	10

cFirst 90 hours' use 3 cents per kw-hr. Next 90 hours' use 1 cent per kw-hr.
dD.C. Service charge \$1.50 per kw per month for first 7½ kw plus \$1.05 per kw for all additional demand.
A.C. Service charge \$1.10 per kw per month for first 7½ kw. plus \$0.90 per kw for all additional demand.
e1/3 cent per kw-hr for next 300 hours' use plus 1/6 cent per kw-hr for all additional.

APPENDIX I

ACTS

CHAPTER 58

An Act to declare the Meaning of Subsection 4 of Section 6 of The Power Commission Act.

*Assented to January 29th, 1937.
Session Prorogued March 25th, 1937.*

WHEREAS by subsection 4 of section 6 of *The Power Commission Act* it is enacted—"Without the consent of the Attorney-General, no action shall be brought against the Commission or against any member thereof for anything done or omitted in the exercise of his office"; and whereas question has been raised as to the true meaning and effect of the said enactment and it is expedient that the meaning and effect of the said enactment should be further declared;

Preamble.

Therefore, His Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Power Commission Declaratory Act, 1937*. Short title.

2. The meaning and effect of subsection 4 of section 6 of *The Power Commission Act* is and always has been that without the consent of the Attorney-General no action of any kind whatsoever shall be brought against The Hydro-Electric Power Commission of Ontario, and that without the consent of the Attorney-General no action of any kind whatsoever shall be brought against any member of The Hydro-Electric Power Commission of Ontario for anything done or omitted by him in the exercise of his office.

Declaration as to meaning of Rev. Stat. c. 57, Sec. 6, subs. 4.

3. This Act shall come into force on the day upon which it receives the Royal Assent. Commencement of Act.

CHAPTER 59

An Act to amend The Power Commission Act.

*Assented to Jan. 29th, 1937.**Session Prorogued Mar. 25, 1937.*

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Power Commission Amendment Act, 1937*.

Rev. Stat.,
c. 57, s. 6,
amended.

2. Section 6 of *The Power Commission Act* as amended by section 2 of *The Power Commission Act, 1929*, is further amended by adding thereto the following subsections:

Commission
property
exempt.

(6) No property of the Commission, or which is vested in the Commission, or to which the Commission may in any way be entitled, shall be subject to any process of law or proceeding for the purpose of satisfying or enforcing any judgment or order of any court of this Province heretofore or hereafter given, made, entered or issued, and for the purpose aforesaid the Commission shall have with respect to all its property all the exemptions, privileges and immunities which are possessed by the Crown with respect to the property of the Crown.

No process to
issue against
Commission.

(7) No execution, garnishment, attachment, receivership, sequestration, or any process of law or proceeding for satisfying or enforcing any judgment or order of any court of the Province heretofore or hereafter given, made, entered or issued against the Commission shall issue or be taken against the Commission or against any member, officer or servant of the Commission, or against any property of the Commission.

No process
to be
executed
against
Commission.

(8) No sheriff, bailiff, officer of any court, or other person whosoever, shall by himself or by his agent, servant or employee, execute or carry out, or assist in executing or carrying out, any execution, garnishment, attachment, receivership, sequestration or any process of law or proceeding against the Commission, or against any member, officer or servant of the Commission, or against any property of the Commission, for enforcing or satisfying any judgment or order of any court of the Province heretofore or hereafter given, made, entered or issued against the Commission.

Judgment
or order not
to create or
constitute
debt or
liability.

(9) No judgment or order heretofore or hereafter given, made, entered or issued by any court of the Province against the Commission shall create or constitute a debt or liability of the Commission.

Commence-
ment of Act.

3. This Act shall come into force on a day to be named by the Lieutenant-Governor by his Proclamation.

CHAPTER 60

An Act to amend The Power Commission Act.

Assented to March 25th, 1937.

Session Prorogued March 25th, 1937.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Power Commission Act, 1937*. Short title.
2. Section 11 of *The Power Commission Act*, as amended by Rev. Stat., c. 57, s. 11, section 3 of *The Power Commission Amendment Act, 1935*, is re-re-enacted. re-enacted. and the following substituted therefore:
 - 11.—(1) The Commission may retain and set apart out of Reserve Fund for. moneys coming into its hands such sums as may in the opinion of the Commission be sufficient for the following purposes:
 - (a) to provide for the renewal, reconstruction, alteration Renewals; and repair of works constructed or operated by the Commission;
 - (b) to meet interest upon working capital and for the Interest and charges; operations of the Commission under sections 40 and 51 of this Act, and to meet obligations, charges and expenses arising from time to time in the course of such operations;
 - (c) to meet any expenditures or costs caused by or arising Obsolescence; from injury to, or destruction, obsolescence or loss of use of any works or other property of the Commission or otherwise incurred or payable by the Commission;
 - (d) to provide its own funds as insurance against loss or Insurance; damage to any property of the Commission or loss or damage to the persons or property of others caused by or arising from the works or operations of the Commission.
 - (2) The Commission may expend, use, apply, utilize and Use appropriate the moneys retained and set apart under subsection 1, or any part thereof, for any of the purposes of the said subsection.
3. Section 11a of *The Power Commission Act*, as enacted by Rev. Stat., c. 57, s. 11a section 2 of *The Power Commission Act, 1930*, is repealed and the (1930 c. 12, s. 2), re-enacted. following substituted therefor:
 - 11a.—(1) An account to be known as the “Stabilization Fund Stabilization Fund Account. Account” shall be opened and maintained on the books of the Commission and the Commission may place to the credit of such account,—

- (a) such amounts as the Commission may determine and collect for the purposes of this section from its customers;
- (b) interest at such rates as the Commission shall deem equitable and just upon balances remaining from time to time to the credit of the account;
- (c) any surplus, or balance or money or credit, or such portion thereof as the Commission may determine, howsoever or whenever accumulated or acquired, and notwithstanding the purpose or purposes for which or the manner in which the moneys may have been collected or may have been held, and whether or not it is or includes a surplus balance or credit held for or to the credit of any municipality or rural power district in any manner, under section 59 or otherwise.

Transfers

- (2) Any such surplus, balance or credit now held by the Commission in any account or accounts may at any time or times in the discretion of the Commission be transferred to the said stabilization fund account.

Use.

- (3) Any or all of the moneys in the said stabilization fund account may be used in the discretion of the Commission for determining, and for adjusting and apportioning (including making equitable and stabilizing) the amounts payable to the Commission by municipal corporations or persons.

Items chargeable to account.

- (4) Costs and expenses incurred by the Commission which in the opinion of the Commission are for the protection or advancement of the interests in the undertakings under its supervision or control and are not properly chargeable to any system or to any municipal corporation under contract with the Commission may be charged by the Commission to the Stabilization Fund Account.

Rev. Stat., c. 57, s. 16, amended.

4.—(1) Section 16 of *The Power Commission Act* is amended by adding thereto the following subsection:

Continuance for former employees.

- (3) (a) The Commission may continue to extend the provisions of subsection 1 to each employee of The Sandwich, Windsor and Amherstburg Railway to whom the Commission was extending the said provisions on the 21st day of September, 1934, but shall be under no obligation to do so if the required contributions to the said fund in respect of such employee cease to be paid to the Commission for any cause other than death or retirement on pension;

Employees may withdraw.

- (b) Any such employee though still remaining an employee of the railway may at any time withdraw from the said fund upon giving to the Commission thirty days prior notice in writing;

- (c) Any such employee who withdraws from the said fund or who for any cause other than death or retirement on pension ceases to be an employee of the railway shall, so far as relates to the said fund, be deemed to have left the service as in the case of contributing employees leaving the Commission's service, and may not again be included among those to whom this subsection applies; Leaving service.
- (d) This subsection shall have effect notwithstanding that the Commission ceased to operate the said railway on the 22nd day of September, 1934, but only so long as the railway continues to be operated on behalf of or in trust for one or more municipalities. Effective though Commission not operating railway.
- (e) The extension of the provisions of subsection 1 by the Commission to employees of the said railway prior to the date this Act comes into force is hereby confirmed and declared to be legal and valid. Prior Acts confirmed.

(2) Section 5a of *The Sandwich, Windsor and Amherstburg Railway Act, 1930*, as enacted by section 16 of *The Statute Law Amendment Act, 1935*, is repealed. 1930
c. 17, s. 5a.
(1935
c. 66, s. 16),
repealed.

5. Clause a of subsection 2 of section 20 of *The Power Commission Act*, as enacted by section 3 of *The Power Commission Act, 1931*, is repealed, and the following substituted therefor: Rev. Stat.,
c. 57, s. 20,
subs. 2,
cl. (a)
(1931,
c. 13, s. 3),
re-enacted.

- (a) Acquire by purchase, lease or otherwise, land, waters, water privileges, water powers, and works, used for, or adapted or useful for, or capable of being used or made useful for generating, transforming or transmitting electric power or energy; enter upon, take possession of, expropriate, acquire and use such land, waters, water privileges, water powers and works, without the consent of the owner thereof, or of any person in any manner entitled to any right, title, interest, claim or demand therein; and have and hold the same, however acquired or obtained, and develop, utilize, use, maintain, operate and improve them for any of the purposes of this Act. To acquire lands, water powers and works.

6. Section 23 of *The Power Commission Act* as re-enacted by section 3 of *The Power Commission Act, 1931*, is amended by adding at the end thereof the following words: Rev. Stat.,
c. 57, s. 23
(1931,
c. 13, s. 3),
amended.

"provided, however, that where the lines or works of the Commission are situate upon a highway, whether it be the King's Highway or any other highway, compensation shall be payable only to the extent to which it is payable by a municipality for felling or removing trees or branches thereof under and by virtue of section 499 of *The Municipal Act*." Removal of trees and obstructions.
Rev. Stat.,
c. 233.

so that the said section shall now read as follows:

Removal of
trees and
obstructions.

23. The powers conferred upon the Commission by or under the authority of this Act, shall include the right to enter upon any land upon either side of the right-of-way acquired for the transmission or distribution lines or works of the Commission, or upon any land upon either side of such lines or works, and to fell or remove any trees or branches thereof or any other obstruction upon any such land or upon any public highway or place which, in the opinion of the Commission, it is necessary to fell or remove, but subject always to the payment of compensation as provided in section 21 of this Act, and the said section shall apply to the exercise of the powers mentioned in this section, provided, however, that where the lines or works of the Commission are situate upon a highway, whether it be the King's Highway or any other highway, compensation shall be payable only to the extent to which it is payable by a municipality for felling or removing trees or branches thereof under and by virtue of section 499 of *The Municipal Act*.

Rev. Stat.,
c. 233.

Rev. Stat.,
c. 57, s. 27,
(1931,
c. 13, s. 3),
re-enacted.

7. Section 27 of *The Power Commission Act*, as re-enacted by section 3 of *The Power Commission Act, 1931*, is repealed and the following substituted therefor:

Disposal of
works to a
municipality.

- 27.—(1) The Commission, upon such terms as it deems proper, may lease, sell or otherwise dispose of to a municipal corporation or commission any works or any interest therein which the Commission is or has been using and which it deems advisable to so dispose of as aforesaid.

Acquiring
property from
municipality.

- (2) The Commission may acquire from a municipal corporation or commission by purchase, lease or otherwise, upon such terms as the Commission may deem proper, any works or other property, real or personal, which the Commission may deem advisable for its purposes and such municipal corporation or commission may lease, sell or otherwise dispose of such works or other property to the Commission without the assent of the electors or the approval of the Ontario Municipal Board required by section 32 of *The Public Utilities Act* but otherwise such municipal corporation or commission shall comply with said section 32.

Rev. Stat.,
c. 249.

Joint use
of works.

- (3) The Commission, upon such terms as it deems proper, may contract with any corporation, firm or person for joint ownership or joint use of works or for rights to use the works of any corporation, firm or person or to permit any corporation, firm or person to use works of the Commission and for the purposes of this subsection, works shall include telephone and telegraph lines and other communication works either of the Commission or of any other corporation, firm or person in addition to the things mentioned in clause b of section 1.

- (4) The Commission may, upon such terms as it deems proper, Sale of property.
sell, lease or otherwise dispose of any property, real or
personal, which it may deem unnecessary for its purposes.

8. Section 29 of *The Power Commission Act* as re-enacted by Rev. Stat.,
c. 57, s. 29
(1931,
c. 13, s. 3)
amended.
section 3 of *The Power Commission Act, 1931*, is amended by adding
at the end thereof the following words:

“and notwithstanding and regardless of the origin, nature Extent of
powers of
expropriation.
and source of the owner’s title thereto, and of the manner
whereby it was acquired by the owner or any of his pre-
decessors in title.”

so that the said section shall now read as follows:

29. The compulsory powers conferred by this Act shall extend Extent of
powers of
expropriation.
to land, works, rights, powers, privileges and property
notwithstanding that they are or may be deemed to be
devoted to a public use or that the owner thereof possesses
the power of taking land compulsorily and notwithstanding
and regardless of the origin, nature and source of the owner’s
title thereto, and of the manner whereby it was acquired
by the owner or any of his predecessors in title.

9. *The Power Commission Act* is amended by adding thereto Rev. Stat.,
c. 57,
amended.
the following section:

- 30a. Where possession of land of the Commission has been taken Limitations
Act not
applicable.
by some other person, the right of the Commission, or
anyone claiming under it, to recover it, shall not be barred
by reason of the lapse of time, notwithstanding the pro-
visions of *The Limitations Act*, or of any other Act of this
Legislature, or by reason of any claim based on possession Rev. Stat.,
c. 106.
adverse to it for any period of time which might otherwise
be made lawfully at common law, unless it is shown that
the Commission had actual notice in writing of such adverse
possession, and such notice was had by it ten years before
it or the said person claiming under it commenced action to
recover the said land; provided that no claim shall be
acquired by possession, prescription, custom, user or
implied grant to any way, easement, water-course or use of
water or water right or privilege or flooding privilege of the
Commission, or to any way, easement, water-course, or
use of water, or right of drainage along, over, upon, on or
from any land, or water or water right, or privilege of the
Commission, notwithstanding provisions of *The Limitations
Act* or any other Act of this Legislature or any claim at
common law based on lapse of time, or length of enjoyment
or use.

10. Section 31 of *The Power Commission Act* is amended by Rev. Stat.,
c. 57, s. 31,
amended.
adding thereto the following subsection:

Easement
over lands
sold for taxes
not affected.

- (4) Notwithstanding anything in *The Assessment Act*, *The Ontario Municipal Board Act, 1932*, *The Department of Municipal Affairs Act, 1935*, or *The Tax Sales Confirmation Act, 1936*, or any other Act of this Legislature, where land which was or is subject to easements, ways, rights of way or entry, flooding rights, licenses or rights to maintain works thereon, owned by or belonging to the Commission, has at any time before or after the coming into force of this Act been sold for taxes, or in respect of which a tax arrears vesting certificate has at any time before or after the coming into force of this Act been registered under the authority of section 109 of *The Ontario Municipal Board Act, 1932*, or section 44 of *The Department of Municipal Affairs Act, 1935*, such easements, ways, rights of way or entry, flooding rights, licenses, or rights to maintain works shall be deemed not to have been affected and shall not be affected by the sale or registration.

Rev. Stat.,
c. 57, s. 56
(1930,
c. 12, s. 9)
amended.

11. Clause *d* of section 56 of *The Power Commission Act*, as enacted by section 9 of *The Power Commission Act, 1930*, is repealed and the following substituted therefor:

- (*d*) An amount to be determined by the Commission to be paid for the purposes of sections 11 and 11*a*.

Rev. Stat.,
c. 57, s. 66,
amended.

12. Section 66 of *The Power Commission Act* is amended by striking out the last three lines and substituting therefor the following

Changes in
rural power
districts.

“and the Commission may unite any two or more rural power districts in one rural power district and may join into a rural power district or may include in a rural power district one or more townships or any part or parts thereof whether already part of any rural power district or not and may alter the boundaries of any rural power district.”

so that the said section shall now read as follows:

Contracts for
supply of
power.

66. Subject to the approval of the Lieutenant-Governor in Council, the Commission may contract with the municipal corporation of a township, or with the municipal corporations of two or more townships, for the supply and distribution by the Commission of electrical power or energy in the township or townships; and the Commission may, with the approval of the corporation, lay out and define areas, hereinafter called “rural power districts,” in the township or townships for the distribution of electrical power or energy; and the Commission may, on behalf of the corporation,

- (*a*) acquire, construct, extend, reconstruct, hold, maintain, operate and administer all works necessary for the transmission to, and the transforming and distributing in, any such rural power district of electrical power or energy;

- (b) supply electrical power or energy to customers of the corporation in any such rural power district;
- (c) perform, enjoy and enforce all contracts in which the corporation agrees to supply or sell electrical power or energy to any such customer or at any premises within such rural power district,

and the Commission may unite any two or more rural power districts in one rural power district and may join into a rural power district or may include in a rural power district one or more townships or any part or parts thereof whether already part of any rural power district or not and may alter the boundaries of any rural power district.

13. *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat.,
c. 57,
amended.

66a.—(1) Subject to the approval of The Lieutenant-Governor in Council, where any Act of this Legislature sets apart lands as a park, and provides for the appointment of a board of commissioners therefor, and makes such board of commissioners a body corporate, such board may purchase from the Commission electrical power or energy for use within the park, and may sell electrical power or energy to customers therein and execute contracts accordingly and the Commission may contract with the Board to supply and distribute such electrical power or energy. Right of
Park Board
to contract
for power.

(2) Upon the execution of a contract between the Commission and any such board, the Commission may make any such park a rural power district or part of a rural power district or incorporate the whole or any part of such park in any rural power district and the provisions of this or any other Act applying to a rural power district shall be applicable. When park
to be rural
power district.

14. By-law number 1591 of the corporation of the town of Cobourg, and all debentures issued or to be issued, or purporting to be issued under the said by-law are confirmed and declared to be legal, valid and binding upon the said corporation and the rate-payers thereof respectively, and shall also be binding upon any and all persons entitled to payment of the principal of or interest on the said debentures, and upon any and all persons entitled to payment of the principal of or interest on the debentures in lieu of which they are issued pursuant to the said by-law, and shall not be open to question upon any ground whatsoever notwithstanding the requirements of *The Power Commission Act* or *The Municipal Act* or any amendments thereto or any other general or special Act of this Legislature, or the terms of any previous contract or by-law of the said corporation. By-law
No. 1591,
Town of
Cobourg
confirmed.

By-laws
confirmed.

15. By-law number 54 of the corporation of the city of Windsor and the agreement between the said corporation and The Hydro-Electric Power Commission of Ontario thereby authorized and by-law number 3325 of the corporation of the city of Belleville are confirmed and declared to be legal, valid and binding upon the said corporations, the ratepayers thereof, and The Hydro-Electric Power Commission of Ontario.

Commence-
ment of Act.

16. This Act shall come into force on the day upon which it receives the Royal Assent.

CHAPTER 61

An Act to validate certain Contracts entered into by
The Hydro-Electric Power Commission of Ontario
and Ottawa Valley Power Company.

*Assented to March 25th, 1937.
Session Prorogued March 25th, 1937.*

HIS MAJESTY, by and with the advice and consent of the
Legislative Assembly of the Province of Ontario, enacts as
follows:

1. This Act may be cited as *The Power Contracts Validation Act, 1937*. Short title.

2. Notwithstanding anything contained in *The Power Commission Act, 1935*, or any other Act of this Legislature,— Contracts declared legal and valid.

(a) the contract between The Hydro-Electric Power Commission of Ontario and Ottawa Valley Power Company bearing date the 4th day of February, 1937, set out as Schedule "A" hereto; and 1935, c. 53.

(b) the two contracts between The Hydro-Electric Power Commission and Chats Falls Power Company, also known as Ottawa Valley Power Company, one contract dated the 15th day of February, 1930, and one contract dated the 24th of February, 1931, known respectively as the "Power Contract" and the "Operating Contract," set out in Schedule "D" to *The Power Commission Act, 1935*, as varied by the contract referred to in clause a;

are hereby ratified, confirmed and declared to be legal and valid.

3. It is hereby declared that the rights of Ottawa Valley Power Company shall in no way be limited or affected by anything contained in *The Power Commission Act, 1935*, *The Power Commission Amendment Act, 1937*, *The Power Commission Declaratory Act, 1937*, or *The Privy Council Appeals Amendment Act, 1937*. Effect of certain Acts.

4. This Act shall come into force on the day upon which it receives the Royal Assent. Commencement of Act.

SCHEDULE "A"

THIS AGREEMENT made this 4th day of February, A.D. 1937;

BETWEEN:

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO,
hereinafter called the "Commission"

—and—

OTTAWA VALLEY PAPER COMPANY,
hereinafter called the "Company"

OF THE FIRST PART,

OF THE SECOND PART.

WHEREAS the Commission entered into four several agreements with the Company either under its present name or its previous name of Chats Falls Power Company, which are respectively known as and dated (a) the Joint Development Agreement of 15th February, 1930; (b) the Power Contract of 15th February, 1930; (c) the Transformer Agreement of 24th February, 1931, and (d) the Operating Agreement of 24th February, 1931, and the said Agreements are referred to herein by the said names;

AND WHEREAS difficulties have arisen in connection with the same and the parties have agreed to enter into this further agreement varying in some respects the Power Contract and the Operating Agreement, terminating the Transformer Agreement, and in all other respects confirming the Joint Development Agreement, the Power Contract and the Operating Agreement;

NOW THEREFORE THIS AGREEMENT WITNESSETH that in consideration of an option of even date given by Calgary Power Company Limited to the Commission to buy all the issued capital stock of the Company and for the considerations herein contained the parties hereto covenant, promise and agree as follows:

1. The Power Contract is hereby amended as follows:

(a) Clause 2 (a) is amended by striking out the words "Two Hundred and Thirty Thousand (230,000) volts" and substituting therefor "Fourteen Thousand Five Hundred (14,500) volts"; and by striking out the words "Fifteen Per Cent. (15%)" and substituting therefor the words "Two Thousand Six Hundred and Forty (2,640) volts";

(b) Clause 2 (d) is amended by striking out the word "by" after the word "delivered" and substituting therefor the word "to";

(c) Clause 3 (a) is amended by striking out the words "Fifteen Dollars (\$15.00)" and substituting therefor the words "Twelve Dollars and Fifty Cents (\$12.50)" and by striking out the words "One Hundred and Twenty Thousand Dollars (\$120,000)" and substituting therefor the words "One Hundred Thousand Dollars (\$100,000)", and by striking out the words "one and one-quarter (1-1/4)" and substituting therefor the words "Twenty-five Twenty-fourths (25/24)"; and by adding at the end of said clause 3 (a) the following words, "Provided, however, that if at any time or times hereafter subsequent to the 30th day of September, 1945, during the term of this Contract, a higher rate is paid by The Hydro-Electric Power Commission of Ontario, directly or indirectly to any other corporation or person for electric power (from water) generated in the Province of Quebec, or from Quebec water in the Ottawa River or by virtue of Quebec water rights in the Ottawa River, for use in the Niagara System, then the rate payable under this contract during any such time shall be such higher rate;"

(d) Clause 4 (d) is amended by striking out the words "Two Hundred and Thirty Thousand (230,000) volts" in the second and third lines thereof and substituting therefor the words "Fourteen Thousand Five Hundred (14,500) volts" and by striking out the words "at the outgoing Two Hundred and Thirty Thousand (230,000) volt transmission line terminus on the transformer structures which it is contemplated will be near the Commission's generating station", and substituting therefor the words "at the point where the cables leading from the Company's generators to the Commission's step-up transformers cross the inter-provincial boundary between the Provinces of Ontario and Quebec";

(e) Clause 5 (e), fourth paragraph, is amended by striking out the figures "3.28" in the fifteenth line thereof, and substituting therefor the figures "2.73";

(f) Clause 11 is hereby struck out and the following substituted therefor:—"The rates to be paid and payments to be made by the Commission as set out in clause 3, shall (except as to any taxes imposed by the Province of Ontario in connection with the said development at Chats Falls) include all compensation to the Company for all taxes, levies, rentals, royalties, license fees and charges that may be levied, assessed or imposed by the Dominion, Provincial or Municipal or any other authority for or during the term of this Agreement or any part thereof:

(g) Clause 13 is amended by inserting after the words "power so withdrawn", the words, "during the remainder of the period that this Agreement continues in force", and by striking out the word "prompt" and substituting therefor the words "one year's":

2. The Transformer Agreement above referred to is hereby declared to be terminated and at an end and the Company hereby surrenders to the Commission any property, rights or interest which it has or may have had in the said transformer station as defined in the Transformer Agreement, and the Commission hereby releases the Company from all payments accrued or to accrue due by the Company under the said Transformer Agreement and from all claims in connection with the said Agreement or the said transformer station, and the Company releases the Commission from all claims under the Transformer Agreement and with respect to all payments already made by it under the said Agreement:

3. The above mentioned Operating Agreement is hereby amended as follows:

(a) In Clause 1, subclause (c) thereof is hereby struck out and the words "Two Hundred and Thirty Thousand (230,000) volts" are struck out and the words "Fourteen Thousand Five Hundred (14,500) volts" substituted therefor;

(b) Clause 4 is amended by striking out the words "other than in the transformer station";

(c) Clause 11 is amended by striking out the words "and the transformer station" in the seventh line of the first paragraph thereof, and by striking out the words "but expressly excluding renewals, replacements and re-construction provided for in the Transformer Agreement" in the tenth and eleventh lines thereof and substituting therefor "but expressly excluding any maintenance, operation, renewals, replacements and reconstruction of the Commission's transformer station";

(d) Clause (e) of clause 11 is hereby struck out;

(e) Clause 14 is hereby amended by striking out all the words following the words "Joint Development Agreement";

(f) Clause 19 is hereby struck out;

4. The Joint Development Agreement and the Power Contract as hereby amended, and the Operating Agreement as hereby amended are hereby ratified and confirmed and shall continue to be in full force and effect:

5. If this Agreement be finally ratified as hereinafter provided, then (a) all accounts, charges and claims of every kind between the Commission and the Company arising out of or connected with the Power Contract, the Operating Agreement and the Transformer Agreement or any of them up to the date of this Agreement are hereby cancelled; (b) the monies paid into court in any litigation between the parties hereto shall be paid out of court to the parties respectively, who paid in the same and the parties hereto will secure and furnish all necessary consents therefor:

6. The present appeal to His Majesty's Privy Council now pending between the parties hereto shall be postponed from the present sittings to the next sittings of the said Privy Council; And all proceedings in any other actions pending between the parties shall be stayed until the final ratification of this Agreement or until the time fixed therefor has expired:

7. Upon the said ratification of this Agreement the said appeal and all other litigation between the parties shall be discontinued without costs and the Company shall have no claim for any money payment against the Commission under the said judgment appealed from and will give the Commission a satisfaction piece or other release in respect of any money directed to be paid thereunder;

8. This Agreement shall be effective on and from the date hereof but shall cease to be effective on and after the First day of May, 1937, unless prior to that date the Trustee for the bondholders of the Company shall have given a valid consent to the modifications and changes in the Power Contract as herein provided, and this Agreement shall have been ratified by Act of the Ontario Legislature which said ratifying Act shall also declare that the rights of the Company shall in no way be limited or affected by anything contained in Chapter 53 of the Statutes of Ontario, 1935, 25 George V, or in any of the three Acts already passed by the Ontario Legislature in the year 1937 known as Bills Nos. 31, 32 and 33;

9. Pending such consent and ratification, the Power Contract and Operating Agreement as hereby amended shall be in full force and effect but if said consent and ratification be not finally obtained by the First of May, 1937, then the parties hereto shall revert to their respective positions as though this Agreement had not been entered into but all accounts between the parties for anything arising out of this Agreement shall be settled as of the said First of May, 1937:

10. The parties further agree that in case either of them shall at any time deem it advisable to obtain further legislative or other authority or power, to remove any doubt that may exist in regard to the power of the parties or either of them to enter into and perform this Agreement and the agreements between them herein referred to, the other party hereto shall at the request

of such first mentioned party, join in any application for and co-operate in obtaining such further legislative or other authority or power, but shall not be required to bear any part of the expense of such application.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed under their corporate seals, attested by the signatures of their proper officers duly authorized thereto.

SIGNED, SEALED AND DELIVERED
In the presence of

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
(Sgd.) T. S. LYON,
Chairman.

(Seal)

(Sgd.) A. MURRAY MCCRIMMON,
Secretary and Controller.

OTTAWA VALLEY POWER COMPANY
(Sgd.) C. W. ALLEN,
President.

(Seal)

(Sgd.) A. G. MACKINNON,
Secretary.

CHAPTER 71

The Shallow Lake and Tiverton Rural Power Act, 1937.

*Assented to March 25th, 1937.
Session Prorogued March 25th, 1937.*

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Shallow Lake and Tiverton Rural Power Act, 1937*.

Shallow Lake
and Tiverton
deemed
townships for
rural power.

Rev. Stat.,
c. 57.

2. For the purposes of *The Power Commission Act* the municipalities of the villages of Shallow Lake and Tiverton shall each be deemed to be a township and Part IV of *The Power Commission Act* shall apply accordingly.

CHAPTER 80

The Village of Vienna Rural Power Act, 1937.

*Assented to March 25th, 1937.
Session Prorogued March 25th, 1937.*

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Village of Vienna Rural Power Act, 1937*.

Vienna Village
deemed
township for
rural power.

Rev. Stat.,
c. 57.

2. For the purposes of *The Power Commission Act* the municipality of the Village of Vienna shall be deemed a township and Part IV of *The Power Commission Act* shall apply accordingly.

APPENDIX II

TRANSMISSION LINE RECORDS

Corrected to October 31, 1937

including

Summaries of data respecting mileage of transmission lines

built or acquired by

The Hydro-Electric Power Commission of Ontario

APPENDIX

TOTAL MILEAGE OF TRANSMISSION LINES AND NUMBER OF

System and voltage	Line route miles		
	Total to Oct. 31, 1936	Addi- tions 1937	Total to Oct. 31, 1937
Niagara System			
220,000-volt.....	705.27	.....	705.27
110,000-volt.....	713.70	1.50	715.20
110,000-volt.....	67.16	.....	67.16
90,000-volt.....	65.85	.....	65.85
60,000-volt.....	94.23	*15.48	78.75
60,000-volt.....	23.95	*4.74	19.21
46,000-volt.....	16.94	15.48	32.42
46,000-volt.....	21.88	.....	21.88
26,400-volt.....	608.18	*10.00	598.18
13,200-volt.....	453.16	0.42	453.58
13,200-volt.....	0.56	0.61	1.17
12,000-volt.....	111.76	6.15	117.91
Dominion Power division—44,000-volt.....	37.31	.....	37.31
Dominion Power division—44,000-volt.....	141.36	.....	141.36
Dominion Power division—22,000-volt.....	28.10	.....	28.10
Dominion Power division—22,000-volt (concrete poles).....	9.00	.....	9.00
Dominion Power division—10,000-volt.....	14.52	.....	14.52
Georgian Bay System			
110,000-volt.....	55.83	.....	55.83
38,000-volt.....	40.84	16.46	57.30
22,000-volt.....	13.44	.....	13.44
6,600-volt.....	2.30	.....	2.30
Severn district—38,000-volt and less.....	176.46	*0.24	176.22
Eugenia district—38,000-volt and less.....	321.00	.....	321.00
Waddell district—22,000-volt.....	83.72	.....	83.72
Muskoka district—38,000-volt and less.....	26.46	.....	26.46
Eastern Ontario System			
110,000-volt.....	107.08	.....	107.08
110,000-volt.....	43.12	120.32	163.44
44,000-volt.....	24.33	.....	24.33
33,000-volt.....	33.86	.....	33.86
Central district—44,000-volt and less.....	503.06	18.21	521.27
St. Lawrence district—44,000-volt.....	125.02	.....	125.02
Rideau district—33,000-volt and less.....	76.99	.....	76.99
Madawaska district—33,000-volt and less.....	58.81	.....	58.81
Thunder Bay System			
110,000-volt.....	82.12	.....	82.12
110,000-volt.....	83.33	94.88	178.21
44,000-volt.....	.....	115.09	115.09
22,000-volt.....	0.35	.....	0.35
12,000-volt.....	1.45	.....	1.45
Northern Ontario Properties			
Abitibi district—132,000-volt.....	362.74	.....	362.74
132,000-volt.....	182.04	8.15	190.19
26,400-volt and less.....	32.86	16.41	49.27
Nipissing district—22,000-volt.....	51.67	.....	51.67
Sudbury district—22,000-volt.....	61.08	46.23	107.31
St. Joseph district—22,000-volt.....	28.14	.....	28.14
Espanola district—33,000-volt.....	10.74	.....	10.74
Total.....	5,701.77	†429.45	6,131.22

*Removals. †Net increase.

II

SUPPORTING STRUCTURES CONSTRUCTED AND ACQUIRED

Circuit miles			Number of steel towers			Number of wood poles		
Total to Oct. 31, 1936	Addi- tions 1937	Total to Oct. 31, 1937	Total to Oct. 31, 1936	Addi- tions 1937	Total to Oct. 31, 1937	Total to Oct. 31, 1936	Addi- tions 1937	Total to Oct. 31, 1937
705.27	.....	705.27	3,522	.....	3,522	.....	.....	.....
1,372.76	3.00	1,375.76	6,562	9	6,571	.....	.....	.....
67.16	.....	67.16	.....	.....	.....	824	.....	824
128.72	.....	128.72	409	322	731	.....	.....	.....
74.86	*15.48	59.38	949	*2	947	.....	.....	.....
23.95	*4.74	19.21	.....	.....	.....	644	*172	472
50.16	15.48	65.64	375	.....	375	.....	.....	.....
21.88	.....	21.88	.....	.....	.....	685	.....	685
776.53	*24.84	751.69	.....	.....	.....	23,560	*510	23,050
538.31	*9.86	528.45	.....	.....	.....	17,829	*151	17,678
1.12	1.22	2.34	14	24	38	.....	.....	.....
167.66	7.86	175.52	7	.....	7	4,589	232	4,821
74.62	.....	74.62	526	.....	526	.....	.....	.....
137.74	.....	137.74	.....	.....	.....	5,075	28	5,103
33.45	.....	33.45	.....	.....	.....	1,293	.....	1,293
18.00	.....	18.00	.....	.....	.....	253	.....	253
14.52	.....	14.52	.....	.....	.....	498	.....	498
55.83	.....	55.83	.....	.....	.....	548	.....	548
40.84	16.89	57.73	.....	.....	.....	473	367	840
13.44	.....	13.44	.....	.....	.....	211	.....	211
2.30	.....	2.30	.....	.....	.....	101	.....	101
247.63	*0.48	247.15	.....	.....	.....	7,452	*4	7,448
404.39	.....	404.39	.....	.....	.....	12,632	*1	12,631
87.66	.....	87.66	.....	.....	.....	3,267	1	3,268
26.46	.....	26.46	.....	.....	.....	1,148	.....	1,148
110.39	.....	110.39	636	.....	636	.....	.....	.....
43.12	120.32	163.44	.....	2	2	646	1,187	1,833
24.33	.....	24.33	.....	.....	.....	286	.....	286
33.86	.....	33.86	.....	.....	.....	921	.....	921
554.29	18.21	572.50	.....	2	2	17,929	602	18,531
125.02	.....	125.02	.....	.....	.....	4,329	26	4,355
76.99	.....	76.99	.....	.....	.....	2,870	.....	2,870
58.81	.....	58.81	.....	.....	.....	1,965	.....	1,965
164.28	.....	164.28	539	.....	539	.....	.....	.....
83.33	94.88	178.21	.....	4	4	1,352	1,378	2,730
.....	115.09	115.09	.....	.....	.....	.....	3,062	3,062
0.35	.....	0.35	.....	.....	.....	15	.....	15
1.45	.....	1.45	.....	.....	.....	61	.....	61
725.48	.....	725.48	1,880	.....	1,880	.....	.....	.....
182.04	8.15	190.19	.....	.....	.....	2,600	117	2,717
32.86	16.58	49.44	.....	.....	.....	1,141	583	1,724
68.19	.....	68.19	.....	.....	.....	1,839	.....	1,839
61.08	46.23	107.31	2	.....	2	3,454	613	4,067
28.14	.....	28.14	.....	.....	.....	746	.....	746
10.74	.....	10.74	1	.....	1	291	.....	291
7,470.01	†408.51	7,878.52	15,422	361	15,783	121,527	†7,358	128,885

APPENDIX II

LINES FOR THE USE OF

System	Total route miles			Miles of single-circuit line		
	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937
Niagara system and N.A.....	673.35	.....	673.35	247.79	*22.56	225.23
Dominion Power division.....	.....	.....	.....	.....	.....	.....
Georgian Bay system.....	.....	.....	.....	.....	.....	.....
Eastern Ontario system.....	8.35	6.11	14.46	5.50	6.11	11.61
Thunder Bay system.....	.....	0.33	0.33	.....	0.33	0.33
Northern Ontario properties.....	281.85	.....	281.85	273.10	.....	273.10
Totals.....	963.55	6.44	†969.99	526.39	*16.12	510.27

Included in totals are 1.30 miles of 8-circuit line and 0.18 miles of 7-circuit line (E.O. system),

†This total is exclusive of telephone cable.

*Removals.

TELEPHONE CIRCUITS CARRIED

System	Total route miles			Miles of single-circuit line		
	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937
Niagara system and N.A.....	1,101.41	*7.66	1,093.75	1,013.09	*7.66	1,005.43
Dominion Power division.....	20.22	.....	20.22	15.03	.....	15.03
Georgian Bay system.....	708.58	8.40	716.98	645.19	8.40	653.59
Eastern Ontario system.....	850.27	96.36	946.63	776.21	67.72	843.93
Thunder Bay system.....	97.86	110.93	208.79	92.16	110.93	203.09
Northern Ontario properties.....	335.00	70.79	405.79	334.47	70.54	405.01
Totals.....	3,113.34	†278.82	†3,392.16	2,876.15	†249.93	3,126.08

Included in totals are 2.37 miles of 5-circuit line in E.O. System.

*Removals. †Net increase. ‡This total exclusive of telephone cable.

Derived (carrier and phantom) circuits to Oct. 31, 1936: Niagara system—298.69 miles,

Derived (carrier and phantom) circuits to Oct. 31, 1937: Niagara system—298.69 miles,

These circuits are additional to the above tabulation but are made available by utilizing listed

(Concluded)

TELEPHONE CIRCUITS ONLY

Miles of double-circuit line			Miles of three-circuit line			Miles of four-circuit line			Miles of telephone cable		
Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937
328.52	22.56	351.08	9.08	.....	9.08	75.10	.....	75.10	25.17	0.26	25.43
.....
1.37	.....	1.37	.....	.....	.....	.....	.....	.....	.....	.....	.....
8.75	.....	8.75	.....	.....	.....	.....	.....	.....	1.25	.....	1.25
338.64	22.56	361.20	9.08	.....	9.08	75.10	.....	75.10	26.42	0.26	26.68

and 5.80 miles of 6-circuit line and 7.06 miles of 5-circuit line in Niagara system.

JOINTLY WITH POWER CIRCUITS

Miles of double-circuit line			Miles of three-circuit line			Miles of four-circuit line			Miles of telephone cable		
Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937
79.57	0.33	79.90	0.79	*0.33	0.46	7.96	.....	7.96	3.46	.....	3.46
5.19	.....	5.19	.....	.....	.....	.....	.....	.....	.....	.....	.....
55.84	.....	55.84	7.55	.....	7.55	.....	.....	.....	.....	.....	.....
74.06	25.02	99.08	.....	.....	.....	.....	1.25	1.25	.....	.....	.....
5.70	.....	5.70	.....	.....	.....	.....	.....	.....	.....	.....	.....
0.53	0.25	0.78	.....	.....	.....	.....	.....	.....	.....	.....	.....
220.89	25.60	246.49	8.34	*0.33	8.01	7.96	1.25	9.21	3.46	.....	3.46

Eastern Ontario system—12.70 miles.
Eastern Ontario system—12.70 miles.
physical circuits.

APPENDIX III

CONSTRUCTION IN RURAL POWER DISTRICTS

Summary of Data Respecting Distribution Lines Constructed in Rural Power Districts by The Hydro-Electric Power Commission of Ontario

Below is shown in tabular form the work carried on under the supervision of the Distribution section of the Electrical Engineering department in Rural Power Districts during the year ended October 31, 1937.

SUMMARY OF CONSTRUCTION IN RURAL POWER DISTRICTS

	At October 31, 1936		At October 31, 1937					
	Miles of primary line constructed	Number of consumers receiving service	Miles of primary line			Number of Consumers		
			Constructed	Under construction or authorized	Total	Receiving service	Authorized	Total
NIAGARA SYSTEM.....	7,470.37	51,110	8,512.47	241.18	8,753.65	57,629	1,042	58,671
GEORGIAN BAY SYSTEM								
Severn district.....	374.89	3,441	507.46	24.29	531.75	4,244	92	4,336
Eugenia district.....	255.25	1,344	404.22	60.32	464.54	1,761	426	2,187
Wasdells district.....	251.27	1,792	283.93	2.52	286.45	2,019	23	2,042
Muskoka district....	149.89	897	222.58	11.52	234.10	1,201	54	1,255
Bala district.....	46.06	293	56.30	0	56.30	360	0	360
Minden R.P.D.....	2.61	39	20.76	0	20.76	111	0	111
EASTERN ONTARIO SYSTEM								
Central district.....	1,186.95	8,235	1,556.50	82.49	1,638.99	9,963	268	10,231
St. Lawrence district.	431.59	2,726	540.70	44.52	585.22	3,214	186	3,400
Rideau district.....	96.43	581	114.97	1.08	116.05	685	3	688
Madawaska district..	34.79	268	42.57	0	42.57	312	0	312
Ottawa district.....	197.81	1,278	219.85	1.96	221.81	1,417	9	1,426
THUNDER BAY SYSTEM.	82.73	346	95.68	1.42	97.10	422	17	439
MANITOULIN R.P.D....	37.25	189	47.15	0	47.15	232	0	232
NORTHERN ONTARIO PROPERTIES								
Nipissing district....	19.37	471	20.55	0	20.55	504	0	504
Total.....	10,637.17	73,010	12,645.69	471.30	13,116.99	84,074	2,120	86,194

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS

Rural power district	Property number	At October 31, 1936		At October 31, 1937	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM					
Acton.....	N5D1	11.07	32	12.24	37
Ailsa Craig.....	N4D7	5.59	17	6.41	18
Alvinston.....	N18D9	4.80	9	14.41	18
Amherstburg.....	N15D3	73.55	648	88.55	744
Aylmer.....	N11D2	133.93	751	172.67	942
Ayr.....	N12D4	27.26	104	29.58	112
Baden.....	N7D1	115.50	535	124.67	588
Beamsville.....	N44D3	179.72	1,660	194.20	1,775
Belle River.....	N15D2	45.95	403	51.58	480
Blenheim.....	N14D3	67.86	361	84.19	440
Bond Lake.....	N3D3	182.76	1,846	190.68	1,969
Bothwell.....	N14D10	41.72	165	63.91	234
Brampton.....	N13D2	60.54	191	71.66	247
Brant.....	N12D1	122.91	676	164.61	850
Bridgen.....	N18D8	37.24	123	41.66	142
Burford.....	N12D2	55.57	299	70.60	368
Caledonia.....	N2D5	112.72	607	139.53	737
Chatham.....	N14D1	166.19	898	194.98	1,090
Chippawa.....	N1D7	29.86	202	31.96	224
Clinton.....	N8D11	70.61	404	79.57	445
Delaware.....	N4D3	145.37	718	149.27	761
Dorchester.....	N4D1	119.76	655	129.74	706
Dresden.....	N14D12	28.89	86	52.75	181
Drumbo.....	N12D5	62.84	297	77.85	353
Dundas.....	N2D1	136.22	859	148.90	932
Dunnville.....	N1D9	20.85	129	28.05	173
Dutton.....	N11D3	50.82	199	60.39	231
Elmira.....	N7D3	26.05	99	26.05	110
Elora.....	N5D4	53.41	284	60.69	321
Essex.....	N15D7	95.58	496	112.94	597
Exeter.....	N4D6	70.20	712	85.15	768
Forest.....	N18D6	51.95	205	61.33	263
Galt.....	N6D2	41.08	353	47.14	402
Georgetown.....	N5D2	60.67	296	68.28	332
Goderich.....	N8D2	51.27	209	55.35	234
Grantham.....	N44D1	63.65	889	64.62	914
Guelph.....	N5D3	106.44	643	121.16	716
Haldimand.....	N2D8	88.40	395	112.65	500
Harriston.....	N8D5	24.05	64	24.71	73
Harrow.....	N15D4	71.48	694	77.19	784
Ingersoll.....	N10D3	187.02	649	202.98	723
Jordan.....	N44D2	44.22	428	46.29	449
Keswick.....	N3D5	64.43	1,202	71.90	1,276
Kingsville.....	N15D5	143.05	1,531	162.53	1,743
Listowel.....	N8D8	82.35	368	84.45	387

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1936		At October 31, 1937	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM—Concluded					
London.....	N4D2	206.50	2,386	214.30	2,576
Lucan.....	N4D5	43.33	149	66.43	211
Lynden.....	N2D2	66.60	266	70.99	307
Markham.....	N3D1	136.88	1,055	150.15	1,194
Merlin.....	N14D15	98.25	368	114.52	444
Milton.....	N13D3	77.48	372	83.04	415
Milverton.....	N8D9	49.69	202	55.61	225
Mitchell.....	N8D7	70.11	365	81.79	421
Newmarket.....	N3D4	80.23	461	82.82	513
Niagara.....	N1D1	51.77	336	54.14	372
Norwich.....	N10D1	133.64	605	146.98	687
Oil Springs.....	N18D3	21.14	115	25.37	121
Palmerston.....	N8D6	39.14	121	49.22	158
Petrolia.....	N18D5	18.31	80	23.09	107
Preston.....	N6D1	156.39	1,189	166.19	1,306
Ridgetown.....	N14D2	108.66	739	116.46	802
St. Jacobs.....	N7D2	72.09	409	77.17	439
St. Marys.....	N9D1	127.44	479	146.28	556
St. Thomas.....	N11D1	174.72	1,218	201.64	1,353
Saltfleet.....	N17D1	99.05	1,747	100.58	1,877
Sandwich.....	N15D1	132.04	2,068	136.84	2,234
Sarnia.....	N18D4	89.80	1,375	108.13	1,575
Scarboro.....	N3D2	95.93	1,011	102.95	1,153
Seaforth.....	N8D10	17.56	156	17.76	156
Simcoe.....	N12D6	83.13	462	99.80	586
Stamford.....	N44D4	8.77	303	9.44	305
Stratford.....	N8D4	37.77	238	39.07	245
Strathroy.....	N4D4	84.80	256	111.09	331
Streetsville.....	N13D1	111.15	509	118.54	557
Tavistock.....	N8D1	97.52	356	112.93	423
Thamesville.....	N14D11	73.43	294	89.86	357
Tilbury.....	N14D14	95.43	359	114.34	472
Tillsonburg.....	N10D4	138.53	703	154.57	802
Wallaceburg.....	N14D13	106.24	646	139.38	794
Walsingham.....	N12D7	154.47	759	205.30	1,034
Walton.....	N8D3	47.78	292	60.82	343
Waterdown.....	N2D3	72.48	1,014	79.75	1,066
Waterford.....	N12D3	82.38	351	98.33	433
Watford.....	N18D7	17.55	58	26.27	61
Welland.....	N1D5	287.70	2,917	296.69	3,103
Woodbridge.....	N16D1	230.42	1,193	243.15	1,306
Woodstock.....	N10D2	138.72	737	160.67	820

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1936		At October 31, 1937	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
GEORGIAN BAY SYSTEM					
SEVERN DISTRICT					
Alliston.....	S32D1	24.72	157	38.19	206
Barrie.....	S4D1.	77.06	610	85.08	693
Beeton.....	S33D1	1.80	5	1.80	5
Bradford.....	S37D1	27.17	91	36.65	117
Buckskin.....	S24D1	1.75	22	1.75	23
Cookstown.....	S35D1	0.90	3	0.90	3
Creemore.....	S10D2	30.12	128	53.81	198
Elmvale.....	S7D1..	26.25	160	44.18	218
Hawkestone.....	S9D1	36.55	241	54.48	303
Innisfil.....	S31D1	41.24	728	41.64	809
Medonte.....	S18D1	23.30	112	37.32	168
Midland.....	S1D1	48.75	275	63.34	415
Nottawasaga.....	S5D1	8.22	100	8.22	108
Thornton.....	S36D1	8.00	31	8.14	34
Tottenham.....	S34D1	0.30	1	6.90	14
Wasaga Beach.....	S10D1	18.76	777	25.06	930
EUGENIA DISTRICT					
Arthur.....	E13D2	2.40	10	2.40	12
Bruce.....	E19D1	62.65	311	77.44	367
Chatsworth.....	E3D1	0.00	22	0	22
Dundalk.....	E5D1	4.05	21	6.99	28
Flesherton.....	E1D1	2.60	27	13.65	40
Holstein.....	E7D1	0.50	8	0.50	9
Lucknow.....	E24D1	0.11	2	5.57	3
Markdale.....	E1D2	20.85	87	20.85	90
Meaford.....	E14D1	6.39	34	14.18	52
Neustadt.....	E8D1	0.76	6	0.76	7
Orangeville.....	E12D1	23.73	86	51.92	173
Owen Sound.....	E2D1	20.54	112	39.32	171
Ripley.....	E24D2	4.92	15	31.90	41
Sauble.....	E46D1	13.75	91	22.85	137
Shelburne.....	E10D1	18.44	54	19.37	65
Tara.....	E15D1	36.75	160	48.96	205
Wroxeter.....	E22D1	36.81	298	47.56	339
WASDELLS DISTRICT					
Beaverton.....	W2D1	32.41	398	40.06	434
Cannington.....	W3D1	10.09	53	14.10	66
Kirkfield.....	W6D1	0.00	0	9.89	50
Mariposa.....	W9D1	50.50	336	55.06	357
Port Perry.....	W12D1	53.06	426	55.39	471
Sparrow Lake.....	W1D1	39.49	360	43.63	412
Uxbridge.....	W11D1	65.72	219	65.80	229
MUSKOKA DISTRICT					
Beaumaris.....	M7D1	45.25	353	64.49	437
Baysville.....	M10D1	32.55	182	36.81	213
Gravenhurst.....	M4D1	5.64	29	11.59	48
Huntsville.....	M2D1	39.05	168	68.05	287
South Falls.....	M1D1	0.00	0	0.10	4
Utterson.....	M8D1	27.40	165	41.54	212

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1936		At October 31, 1937	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
GEORGIAN BAY SYSTEM—Concluded					
BALA DISTRICT					
Bala.....	GB13D1	46.06	293	56.30	360
MINDEN R.P.D.					
Minden.....	G37D1	2.61	39	20.76	111
EASTERN ONTARIO SYSTEM					
CENTRAL DISTRICT					
Belleville.....	C38D1	93.33	735	126.84	869
Bowmanville.....	C23D1	35.17	164	47.76	216
Brighton.....	C6D1	12.63	71	15.19	81
Campbellford.....	C11D1	22.69	86	31.05	119
Cobourg.....	C13D1	116.68	560	138.45	667
Colborne.....	C7D1	40.38	230	54.57	290
Fenelon Falls.....	C30D1	61.46	385	78.62	494
Kingston.....	C44D1	156.18	965	210.03	1,181
Lakefield.....	C18D1	29.49	126	36.07	158
Marmora.....	C47D1	3.25	17	2.85	25
Millbrook.....	C25D1	22.26	140	28.24	159
Napanee.....	C43D1	120.89	613	188.83	873
Newcastle.....	C22D1	30.45	137	31.45	143
Norwood.....	C31D1	13.46	69	23.11	144
Oshawa.....	C24D1	142.84	1,798	168.34	1,975
Omeme.....	C26D1	5.22	10	5.55	14
Peterborough.....	C20D1	71.24	1,214	85.62	1,312
Stirling.....	C35D1	27.81	117	32.16	139
Sulphide.....	C34D1	0.00	0	15.31	55
Trenton.....	C3D1	62.46	279	78.00	339
Warkworth.....	C49D1	0.77	10	11.15	45
Wellington.....	C45D1	118.29	509	147.31	665
ST. LAWRENCE DISTRICT					
Alexandria.....	L15D1	20.68	116	34.39	171
Brockville.....	L3D1	99.36	718	108.45	794
Chesterville.....	L5D1	58.89	427	95.57	580
Iroquois.....	L9D1	90.96	472	104.45	549
Martintown.....	L13D1	25.82	166	35.44	182
Maxville.....	L14D2	66.22	433	72.82	474
Prescott.....	L2D1	37.16	215	53.26	269
Williamsburg.....	L7D1	32.50	179	36.32	195
RIDEAU DISTRICT					
Carleton Place.....	H5D1	0.50	1	1.16	4
Kemptville.....	H9D1	5.43	51	5.43	54
Perth.....	H2D1	17.43	87	21.11	104
Smiths Falls.....	H3D1	72.98	442	87.27	523
MADAWASKA DISTRICT					
Arnprior.....	QM10D1	5.72	68	9.32	80
Renfrew.....	QM16D1	29.07	200	33.25	232
OTTAWA DISTRICT					
Nepean.....	T1D1	197.81	1,278	219.85	1,417

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Concluded

Rural power district	Property number	At October 31, 1936		At October 31, 1937	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service

THUNDER BAY SYSTEM

Fort William.....	P10D1	52.40	197	64.93	245
Port Arthur.....	P2D1	30.33	149	30.75	177

MANITOULIN RURAL POWER DISTRICT

Manitoulin.....	MR1D1	37.25	189	47.15	232
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NORTHERN ONTARIO PROPERTIES

NIPISSING DISTRICT					
North Bay.....	Z4D1	15.27	452	16.45	485
Powassan.....	Z8D1	4.10	19	4.10	19

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Rural Operating.....	218
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Cost of Power.....	198
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